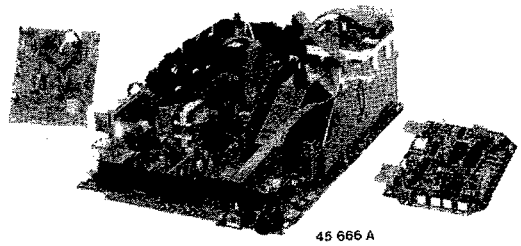
PHILIPS 28MN1370

MODEL

SERVICE MANUAL

AA

Service
Service
Service



45 666 A

ServiceManual

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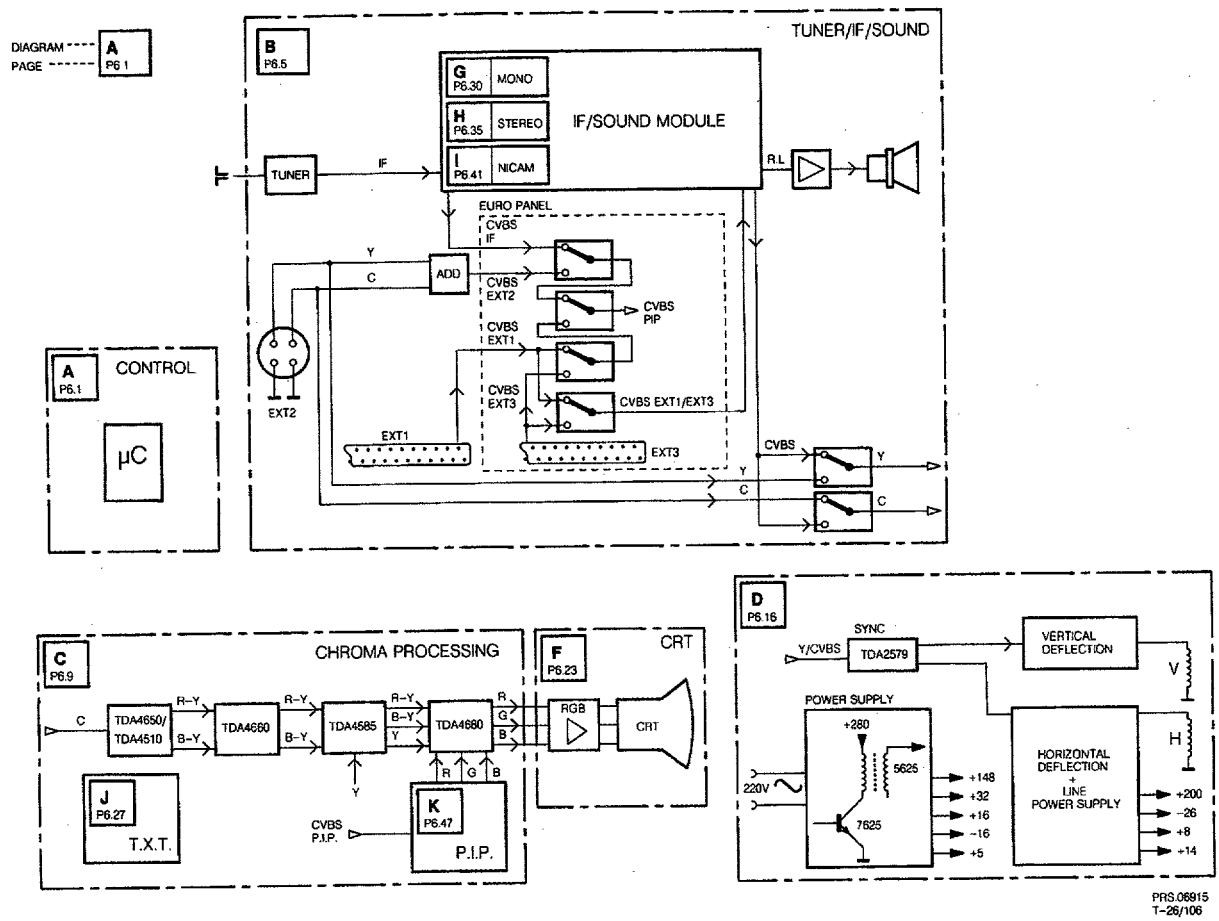
GB 4822 727 18334

Block diagram



Technical data

Mains voltage	: 220 - 240 V (±10%)
Mains frequency	: 50 Hz (± 10%)
Aerial input impedance	: 75Ω - coax
Minimum aerial voltage	: 40µV
Maximum aerial voltage	: 32mV
Pull-in range colour synchronization	: ±300Hz
Pull-in range horizontal synchronization	: ±300Hz

Local operation functions:

P +; P -; ◿+; ◿−; install

Programmes: 0-59
VCR operation on programmes: 0-59

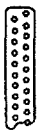
Indications:

- On Screen Display (OSD)
- LED: – standby (red)
  – operation (green)
  – RC5 reception (flashing yellow)
  – internal fault in µP (flashing)

Connection facilities

1. Specification of the terminal sockets

EXT1



1 – Audio ⊖→ R (0.5 V_{RMS}; ⩽ 1 kΩ)
2 – Audio →⊖ R (0.2-2 V_{RMS}; 0.5 $V_{nom.}$; ⩾ 10 kΩ)
3 – Audio ⊖→ L (0.5 V_{RMS}; ⩽ 1 kΩ)
4 – Audio ⊥
5 – Blue ⊥
6 – Audio →⊖ L (0.2-2 V_{RMS}; 0.5 $V_{nom.}$; ⩾ 10 kΩ)
7 – Blue →⊖ (0.7 V_{pp}; 75 Ω)
8 – RC5 ⊖→ (500-800 mV_{pp}) + CVBS status 1 →⊖ (0-2 V: int.; 9.5-12 V: ext.)
9 – Green ⊥
10 – –
11 – Green →⊖ (0.7 V_{pp}; 75 Ω)
12 – –
13 – Red ⊥
14 – –
15 – Red →⊖ (0.7 V_{pp}; 75 Ω)
16 – RGB status →⊖ (0-0.4 V: int.; 1-3 V: ext.; 75 Ω)
17 – CVBS ⊖→ ⊥
18 – CVBS →⊖ ⊥
19 – CVBS ⊖→ (1 V_{pp}; 75 Ω)
20 – CVBS →⊖ (1 V_{pp}; 75 Ω)
21 – Earth screen

EXT2

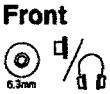
1 – ⊥
2 – ⊥
3 – Y →⊖ (1 V_{pp}; 75 Ω)
4 – C →⊖ (1 V_{pp}; 75 Ω)

2x ◎ CINCH Audio →⊖ L + R (0.2-2 V_{RMS}; 0.5 $V_{nom.}$; ⩾ 10 kΩ)

Audio out

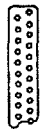
2x ◎ CINCH Audio ⊖→ L + R (0.5 V_{RMS}; ⩽ 1 kΩ)

Front



3,5 mm
⩾ 8 Ω

EXT3



1 – Audio ⊖→ R (0.5 V_{RMS}; ⩽ 1 kΩ)
2 – Audio →⊖ R (0.2-2 V_{RMS}; 0.5 $V_{nom.}$; ⩾ 10 kΩ)
3 – Audio ⊖→ L (0.5 V_{RMS}; ⩽ 1 kΩ)
4 – Audio ⊥
5 – –
6 – Audio →⊖ L (0.2-2 V_{RMS}; 0.5 $V_{nom.}$; ⩾ 10 kΩ)
7 – –
8 – CVBS status 3 →⊖ (0-2 V: int.; 9.5-12 V: ext.)
9 – –
10 – –
11 – –
12 – –
13 – –
14 – –
15 – –
16 – –
17 – CVBS ⊖→ ⊥
18 – CVBS →⊖ ⊥
19 – CVBS ⊖→ (1 V_{pp}; 75 Ω)
20 – CVBS →⊖ (1 V_{pp}; 75 Ω)
21 – Earth screen

2. Connecting equipment

Depending on the type of TV set, a variety of equipment can be connected. The exact number of pieces of equipment depends on the number of connectors on the back of the TV set (EXT1, 2 or 3). The wiring diagram in Fig. 2.1 shows which kinds of equipment can be connected. The wiring diagram shows the TV set with the maximum number of connectors possible for the GR2.1 chassis.

An RGB source (e.g. laserdisc player) can only be connected to EXT1. In order to switch the TV set to RGB operation, this RGB source must generate both a CVBS status signal at pin 8 and an RGB status signal at pin 16 of the euroconnector. It is not possible to switch the equipment to EXT1 in RGB operation using the remote control.

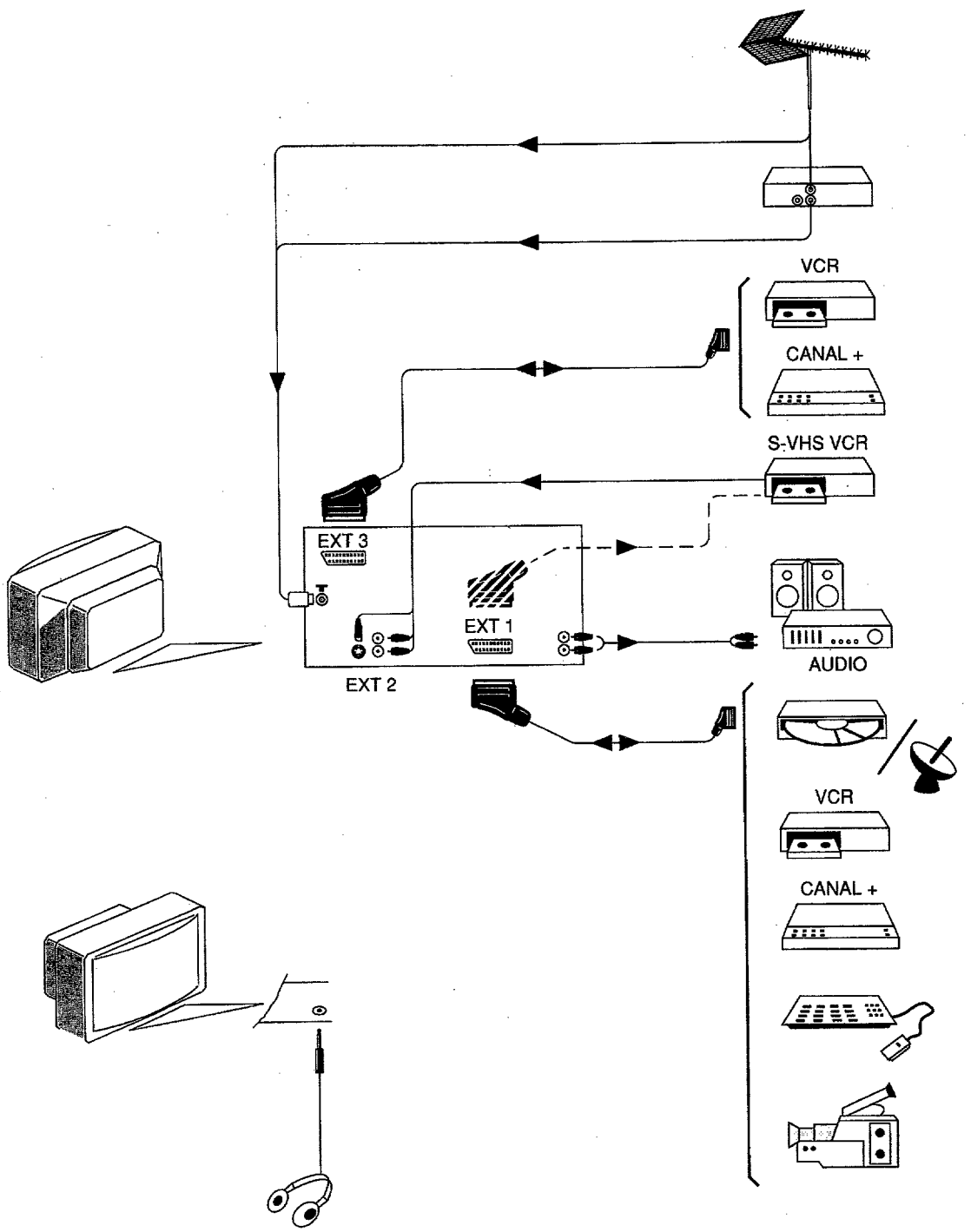


Fig. 2.1

Warnings

1. Safety regulations require that the unit should be returned in its original condition and that components identical to the original components are used. The safety components are indicated by the symbol ⚠.

2. In order to prevent damage to ICs and transistors, all high-voltage flashovers must be avoided. In order to prevent damage to the picture tube, it should be discharged using the method shown in Fig.3.1. Use a high-voltage probe and a multimeter (position DC-V). Discharge until the meter reading is OV (after approx. 30s).

3. **ESD**

   All ICs and many other semiconductors are sensitive to electrostatic discharges (ESD). Careless handling during repair can drastically shorten their life. Make sure that during repair you are connected by a pulse band with resistance to the same potential as the earth of the unit. Keep components and tools also at this same potential.

4. When repairing a unit, always connect it to the mains voltage via an isolating transformer.

5. Be careful when taking measurements in the high-voltage section and on the picture tube.

6. Never replace modules or other components while the unit is switched on.

7. It is recommended that safety goggles are worn when replacing the picture tube.

8. When making settings, use plastic rather than metal tools.
   This will prevent any short circuits and the danger of a circuit becoming unstable.

9. After repair the wiring should be fastened once more in the cable clamps for this purpose.

10. In order to prevent measuring errors, the heat sinks should not be used as reference points for measurements.
    The heat sink for the sound output amplifier (next to the channel selector) is connected to the -16 or -12 volts.

11. Together with the deflection unit and any multipole unit, the flat square picture tubes used form an integrated unit. The deflection and the multipole units are set optimally at the factory. Adjustment of this unit during repair is therefore not recommended.

12. The high-voltage cable in 21" units is glued in the line output transformer. This can therefore not be replaced.

Notes

1. The direct voltages and oscillograms should be measured with regard to the tuner earth (⊥), or hot earth (⊥ ϟ) as this is called.

2. The direct voltages and oscillograms given in the diagrams should be measured in the service default mode (see section 9). A colour bar signal, modulated on a picture carrier wave of 475.25 MHz, should be used as the video signal. A 1 kHz signal should be used for the sound (for all systems).

3. Where necessary, the oscillograms and direct voltages are measured with (⌐|⌐) and without aerial signal (⨯). Voltages in the power supply section are measured both for normal operation (⏀) and in standby (⏻). These values are indicated by means of the appropriate symbols.

4. The picture tube PCB has printed spark gaps. Each spark gap is connected between an electrode of the picture tube and the Aquadag coating.

5. The semiconductors indicated in the circuit diagram and in the parts lists are completely interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.

6. The connectors used for the modules (board to board) are gold-plated and should only be replaced by the same type.

7. In the case of fault finding and/or repair to the teletext module, the accessibility of the circuit and the components can be increased by using extension cards.
   The order numbers of these extension cards are:
   * 6 times: 4822 395 30259
   * 8 times: 4822 214 31402

8. Both multisystem and single system units are discussed in this documentation.
   The term multisystem unit is used to refer to a unit that is suitable for the reception of PAL BGI and SECAM BGLL' systems.
   The term single system unit is used to refer to all other units (such as PAL BG, PAL/SECAM BG and PAL I units).

9. Blackline units can be recognized by the thick, protected high-voltage cable. Non-blackline units have a thin, unprotected high-voltage cable.

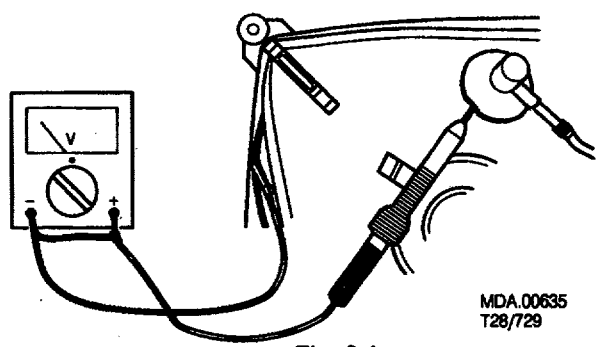


Fig. 3.1

Mechanical instructions

1. Removing the back plate

It is only possible to remove the back plate after removing the screws on the top, side, possibly on the underneath **and possibly under the EXT 3 connection** (see Fig. 4.1). In the case of subwoofer units, the subwoofer speaker on the carrier panel should also be unplugged.

2. Service position 1

Service position for module service and to measure test points

Unlock the chassis after the cables of the degaussing coil and any PIP module have been disconnected, and pull it backwards until all test points are accessible (see Fig. 4.2).
In order to make the tuner and the IF/sound module accessible, the bracket above these modules can be removed (see Fig. 4.3). With the exception of one fault message, the unit continues to function normally when the PIP module is not connected.

3. Service position 2

Service position for repair

Place the chassis on the heat sink on the tuner side after service position 1 is reached (see Fig. 4.4).
Warning: make sure that the heat sink of the sound output amplifier does not form a short circuit with the raster/line heat sink if the bracket of the euromodule has been removed!

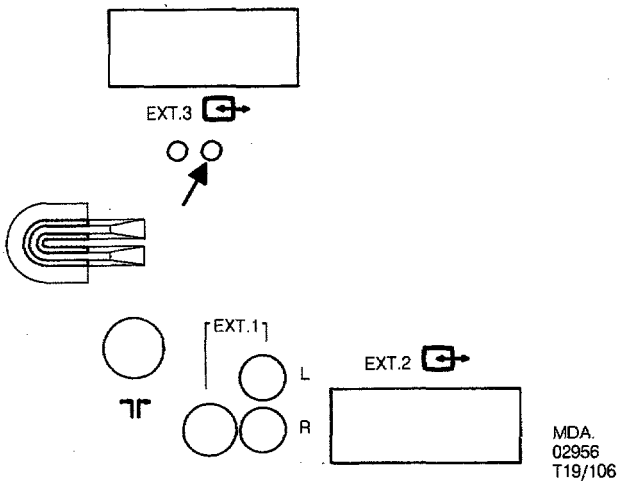


Fig. 4.1

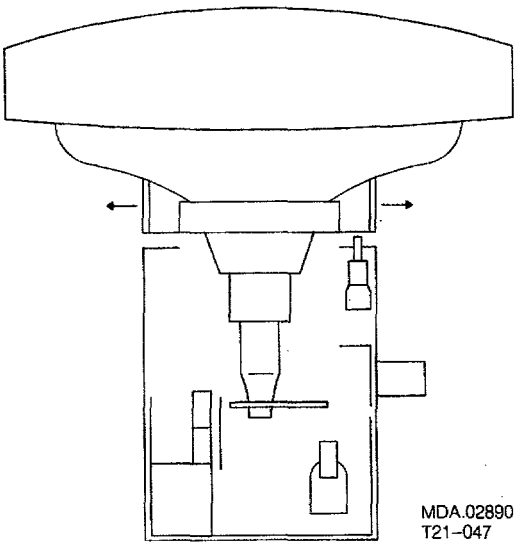


Fig. 4.2

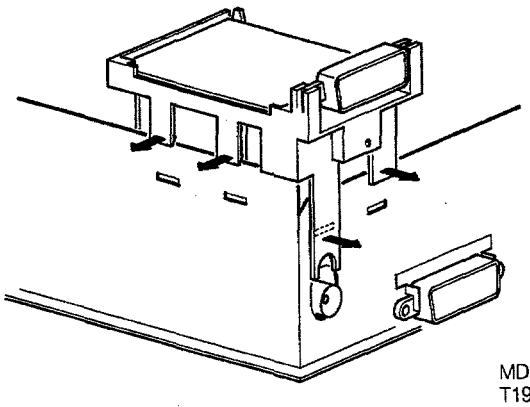


Fig. 4.3

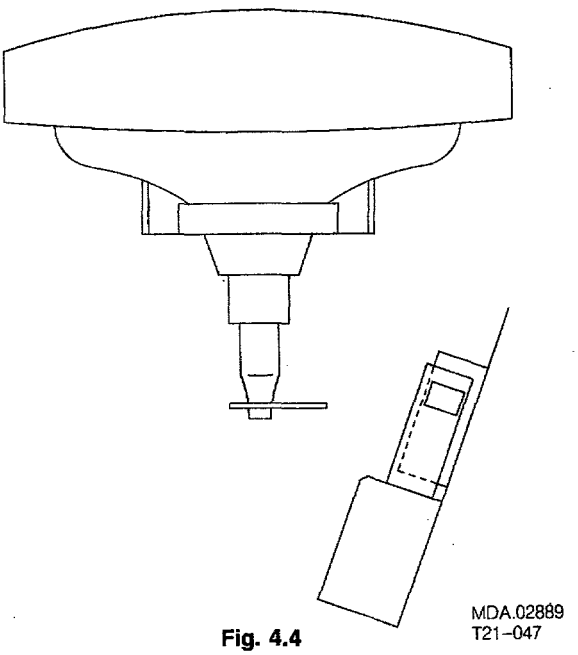
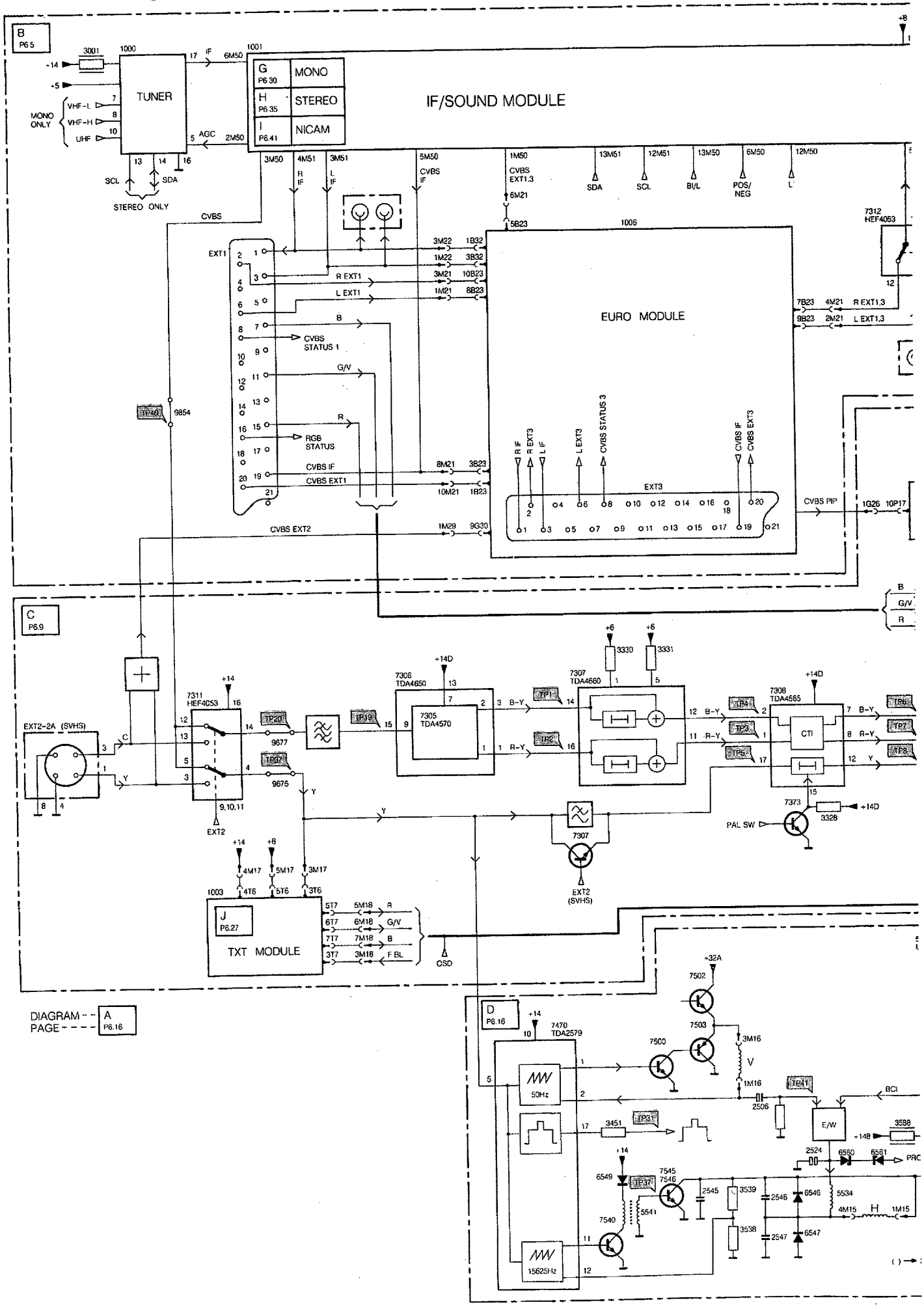
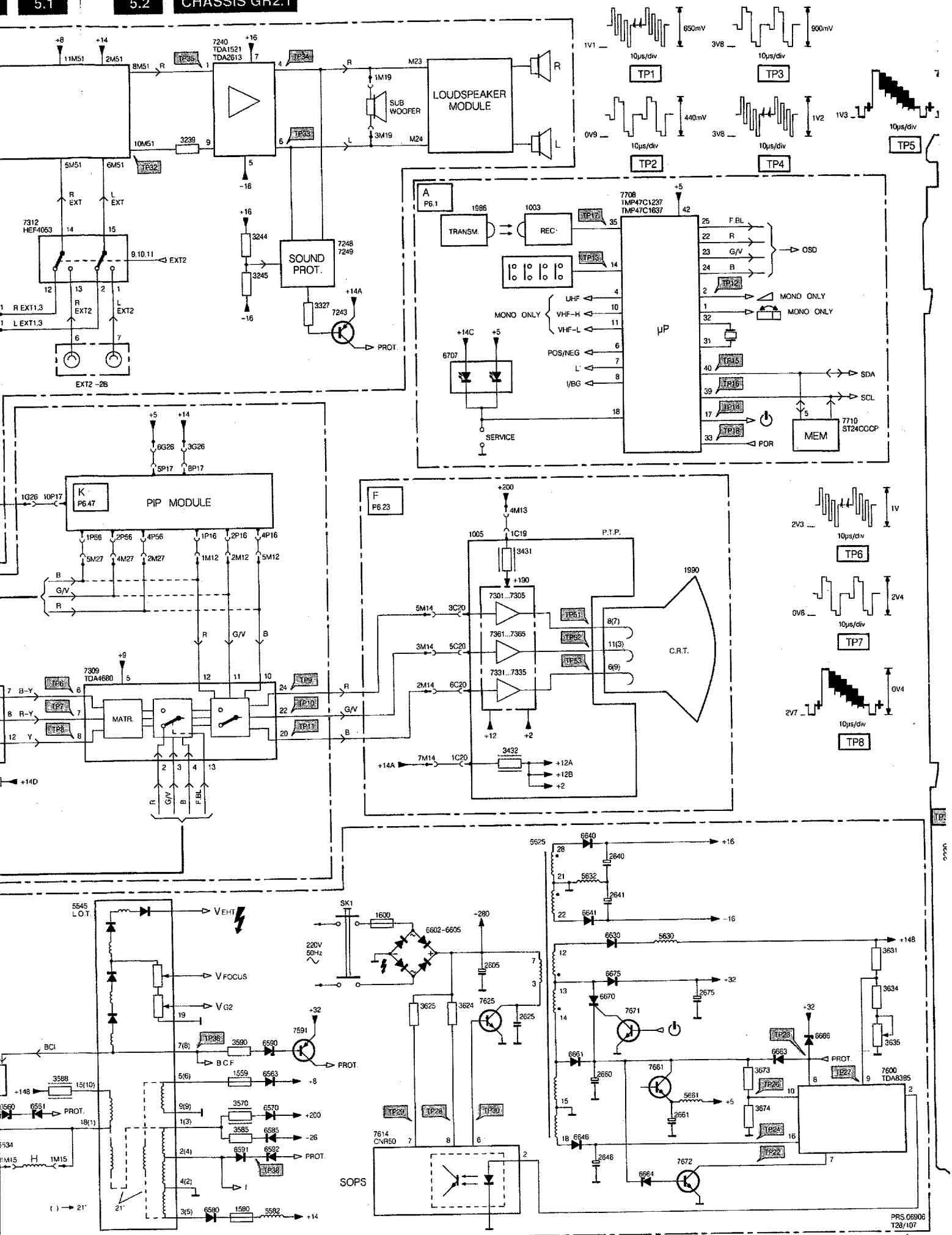
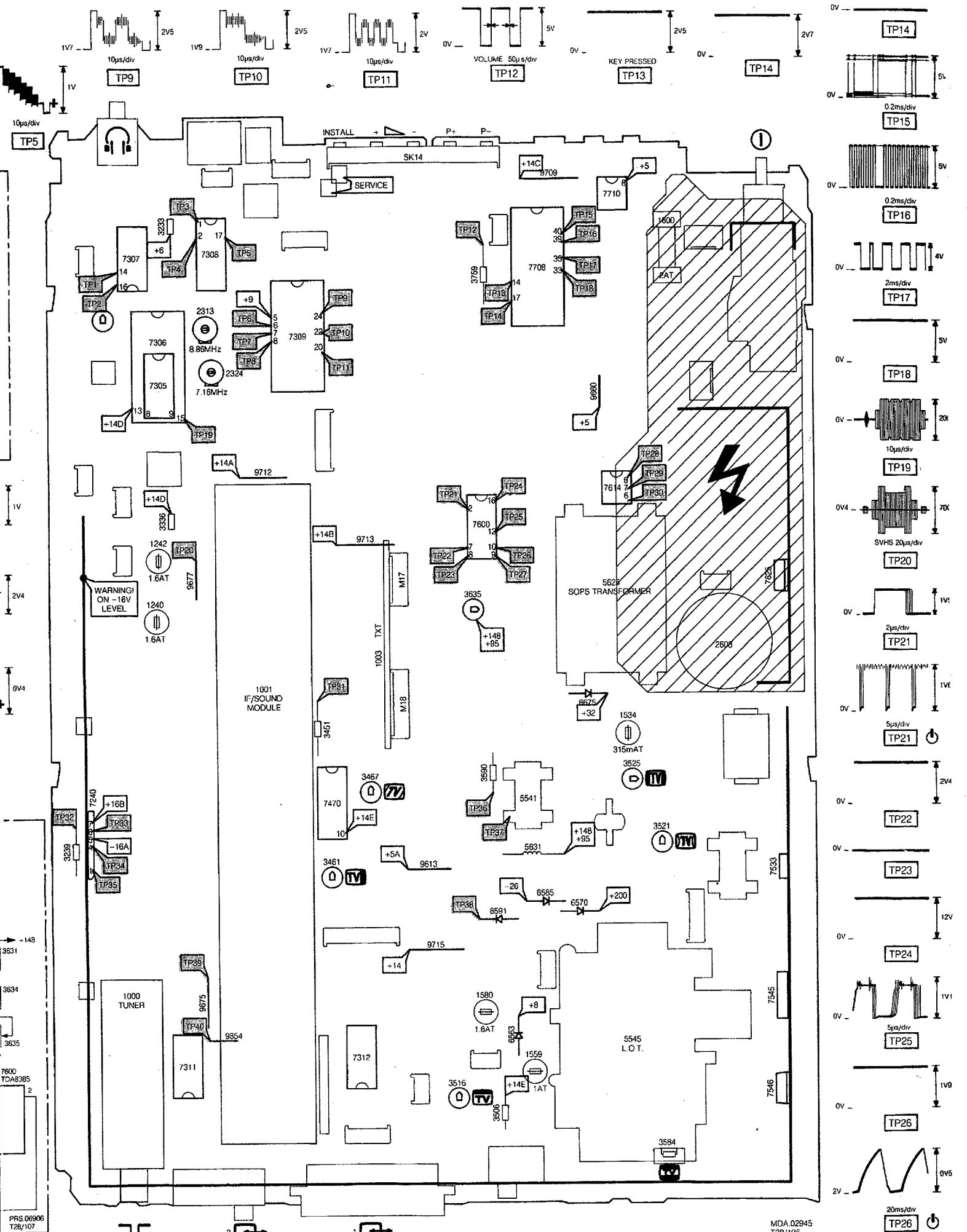


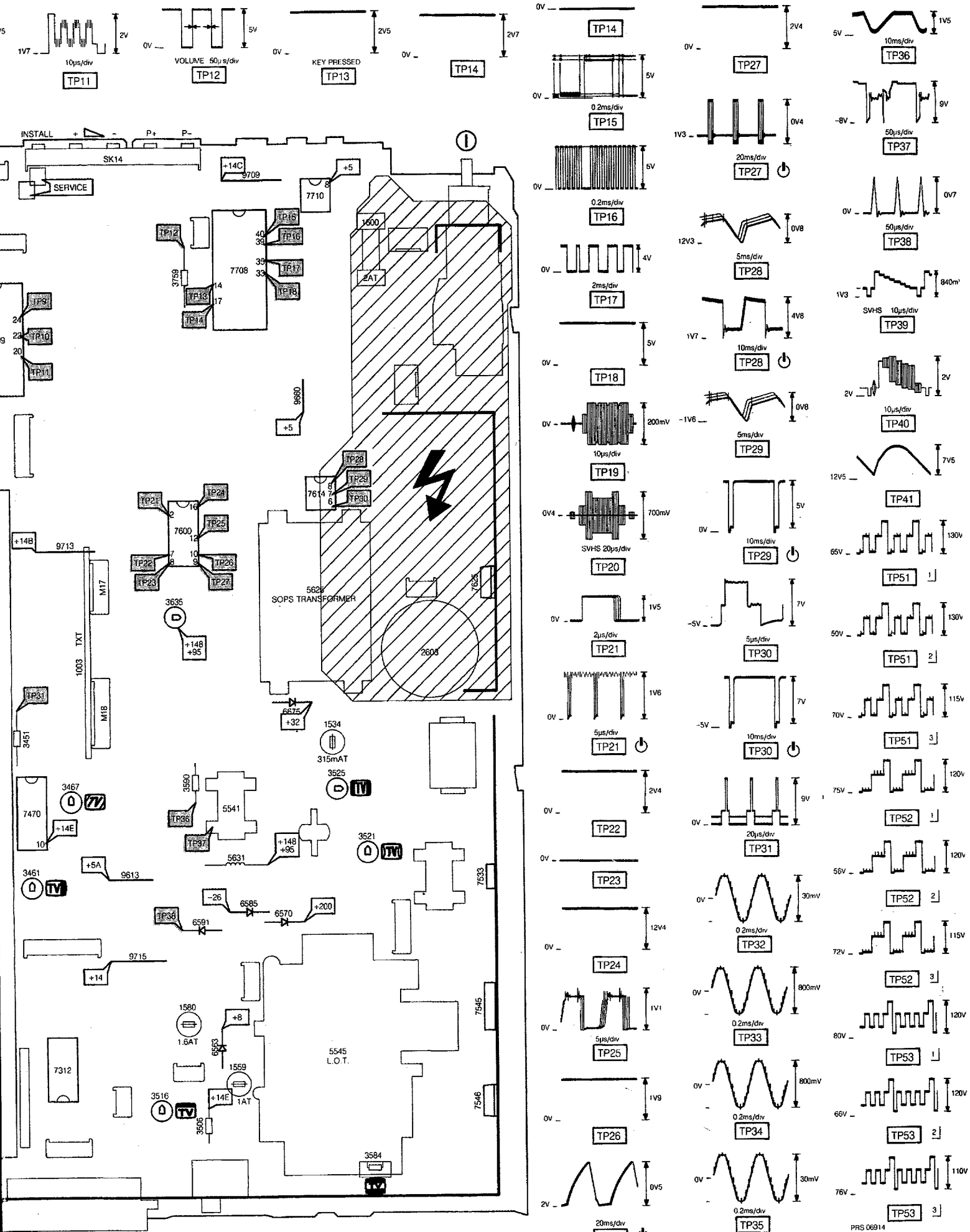
Fig. 4.4

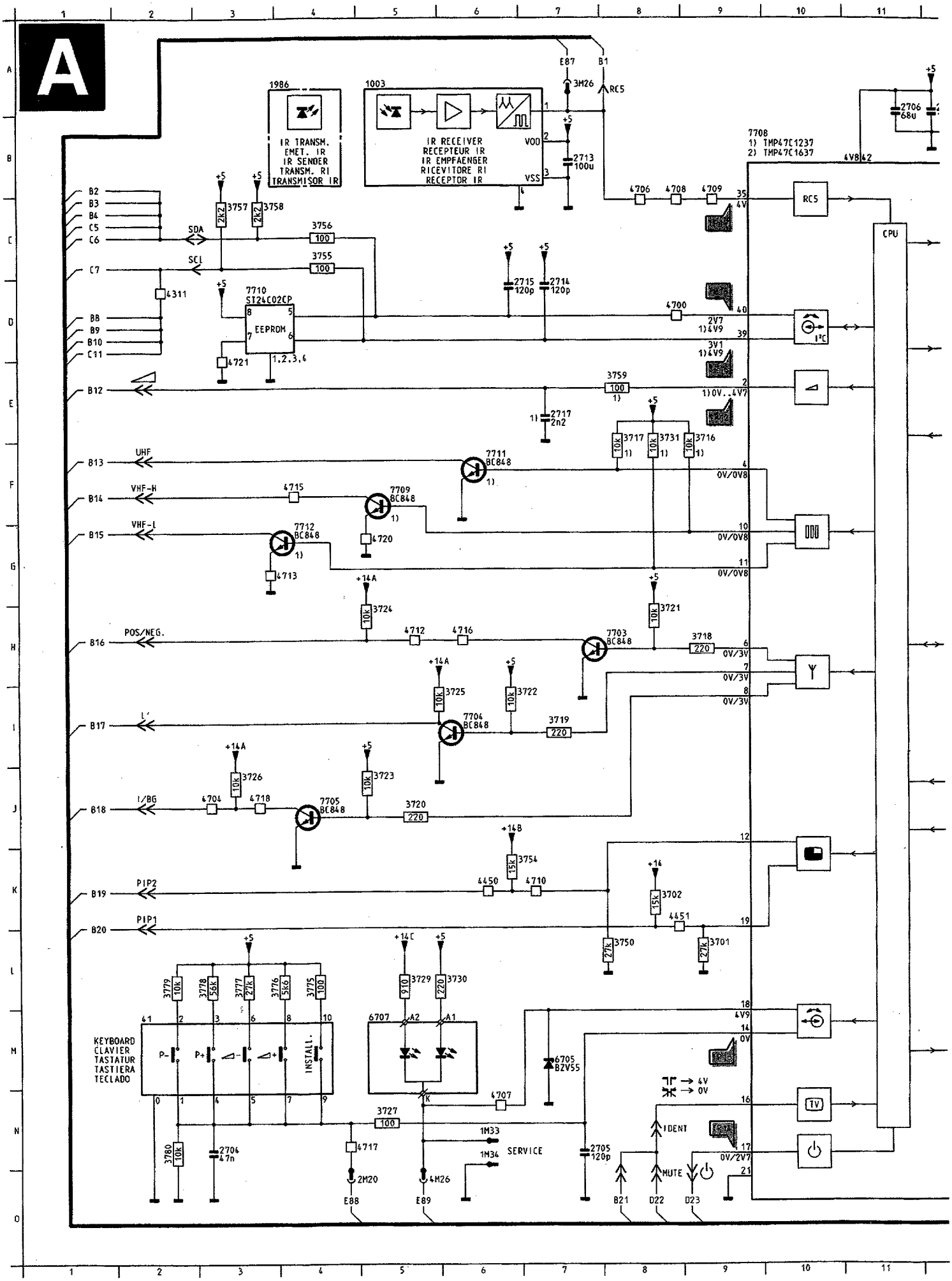
Blockdiagram / Blockschaltbild / Schéma-bloc



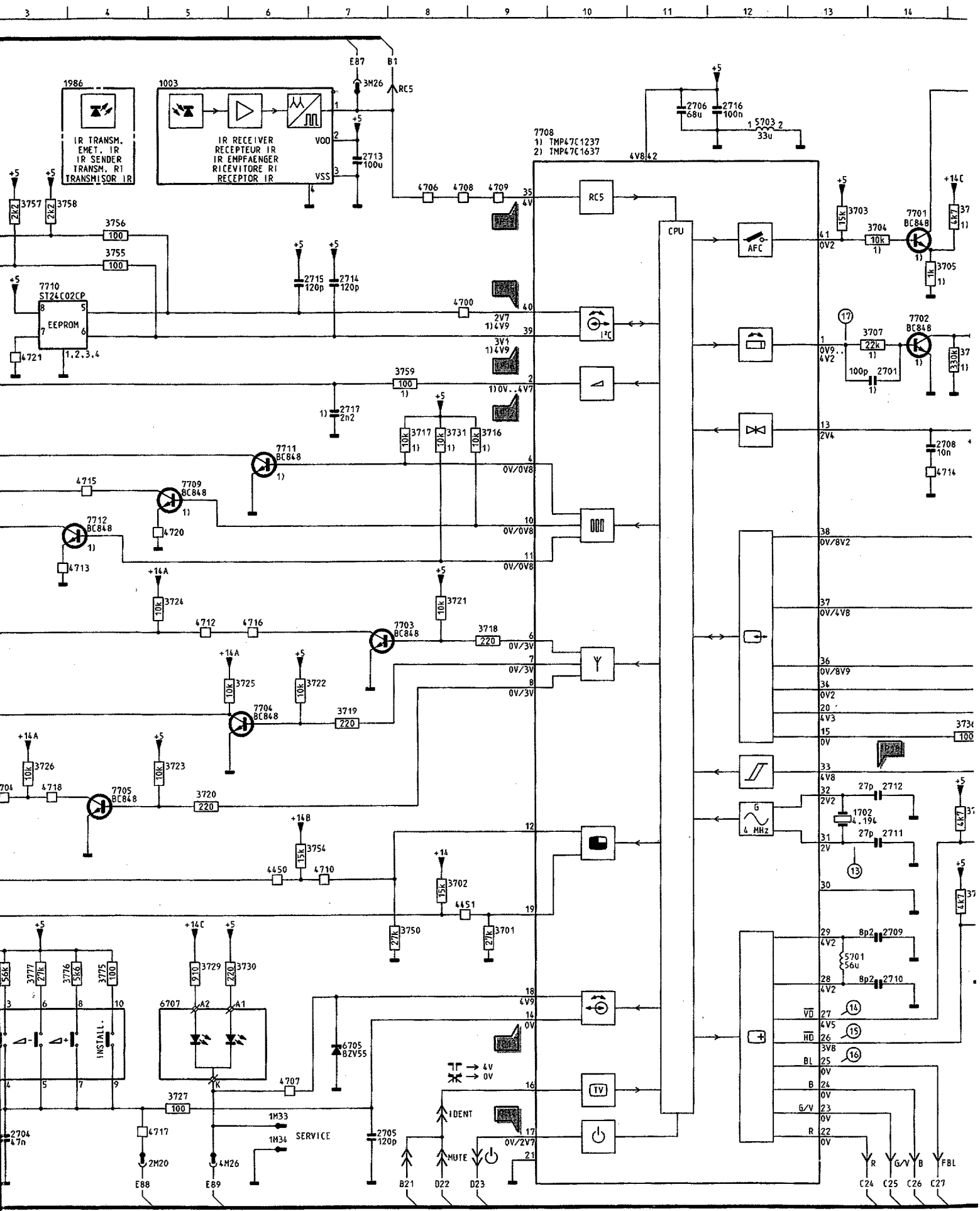

LOUDSPEAKER MODULE
SUB WOOFER
SOUND PROT.
PIP MODULE
MATR.
TRANSM.
REC.
μP
MEM
7710 ST24CCCP
C.R.T.
SOPS
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
PRS.06906
T28/107


TP9
TP10
TP11
TP12
VOLUME 50µs/div
TP13
KEY PRESSED
TP14
TP5
INSTALL
SK14
SERVICE
TP15
TP16
TP17
TP18
TP19
TP20
TP21
TP22
TP23
TP24
TP25
TP26
0.2ms/div
2ms/div
10µs/div
SVHS 20µs/div
5µs/div
20ms/div
1001
IF/SOUND
MODULE
1000
TUNER
5545
L.O.T.
5625
SOPS TRANSFORMER
WARNING!
ON −16V
LEVEL
8.86MHz
7.16MHz
MDA.02945
T28/106
PRS.06906
T28/107

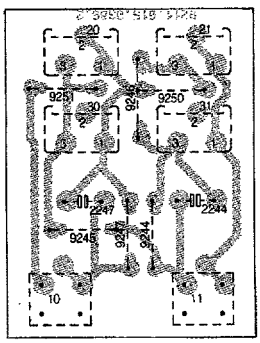

TP11
TP12
TP13
TP14
TP15
TP16
TP17
TP18
TP19
TP20
TP21
TP22
TP23
TP24
TP25
TP26
TP27
TP28
TP29
TP30
TP31
TP32
TP33
TP34
TP35
TP36
TP37
TP38
TP39
TP40
TP41
TP51
TP52
TP53
INSTALL
SK14
SERVICE
SOPS TRANSFORMER
L.O.T.
MDA 02945
T28/106
PRS 06914
T 26/105


A
IR TRANSM.
EMET. IR
IR SENDER
TRANSM. RI
TRANSMISOR IR
IR RECEIVER
RECEPTEUR IR
IR EMPFAENGER
RICEVITORE RI
RECEPTOR IR
7708
1) TMP47C1237
2) TMP47C1637
CPU
RC5
SDA
SCL
EEPROM
UHF
VHF-H
VHF-L
POS/NEG.
PIP2
PIP1
KEYBOARD
CLAVIER
TASTATUR
TASTIERA
TECLADO
P-
P+
INSTALL.
IDENT
MUTE
SERVICE
E87
B1
E88
E89
B21
D22
D23

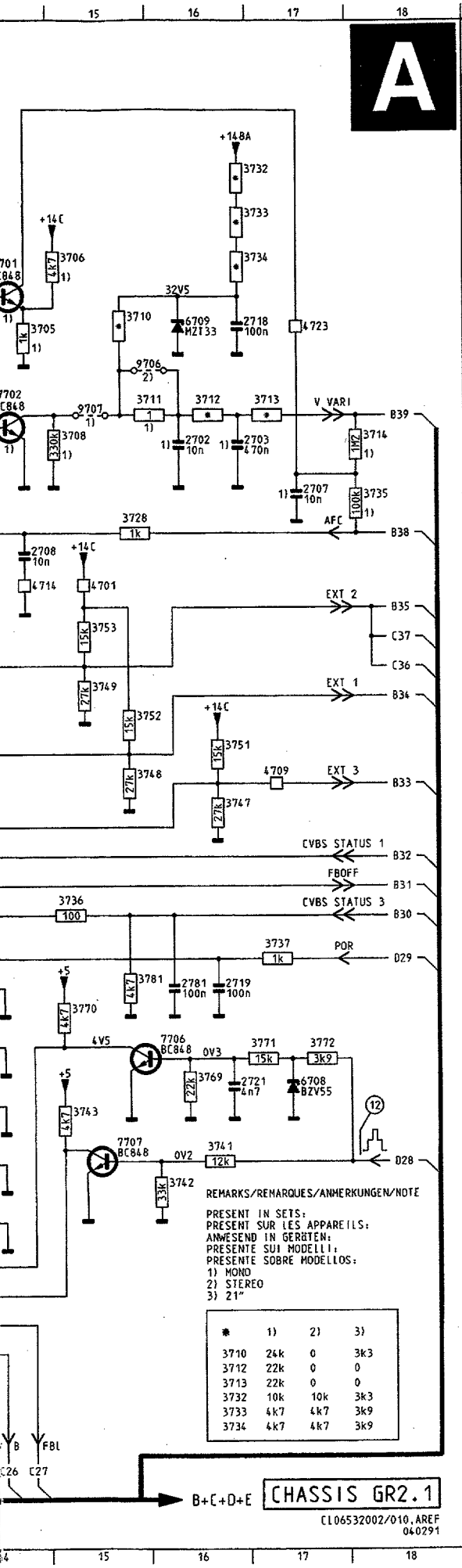
Controls / Bedienung / La Commande



Loudspeaker module
Lautsprecher-Platte
Module haut parleur



PCB 03166
T28/104



	1003	A 5	7703	H 8
	1702	J13	7704	I 6
	1986	A 3	7705	J 4
	2701	E14	7706	K16
A	2702	E16	7707	L15
	2703	E17	7708	B 9
	2704	N 3	7709	F 5
	2705	N 7	7710	D 3
	2706	A11	7711	F 6
	2707	E17	7712	G 4
	2708	F14	9706	D16
	2709	L14	9707	D15
B	2710	L14		
	2711	K14		
	2712	J14		
	2713	B 7		
	2714	D 7		
	2715	D 6		
	2716	A12		
	2717	E 7		
C	2718	C17		
	2719	J16		
	2721	K16		
	2781	J16		
	3701	L 9		
	3702	K 8		
	3703	C13		
	3704	C14		
D	3705	C14		
	3706	C15		
	3707	D14		
	3708	D15		
	3710	C15		
	3711	D16		
	3712	D16		
E	3713	D17		
	3714	D18		
	3716	E 9		
	3717	E 8		
	3718	H 9		
	3719	I 7		
	3720	J 5		
F	3721	H 8		
	3722	I 6		
	3723	J 5		
	3724	H 5		
	3725	I 6		
	3726	J 3		
	3727	N 5		
	3728	E15		
G	3729	L 5		
	3730	L 6		
	3731	E 8		
	3732	B17		
	3733	B17		
	3734	C17		
	3735	E18		
	3736	I15		
H	3737	J17		
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	3742	L16		
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	3748	H15		
	3749	G15		
I	3750	L 8		
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	3752	G15		
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	3755	C 4		
	3756	C 4		
	3757	C 3		
J	3758	C 3		
	3759	E 8		
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K	3776	L 4		
	3777	L 3		
	3778	L 3		
	3779	L 3		
	3780	N 3		
	3781	J15		
	4104	M 2		
	4311	D 2		
L	4450	K 6		
	4451	K 8		
	4700	D 8		
	4701	F15		
	4704	J 3		
	4706	C 8		
	4707	N 6		
M	4708	C 8		
	4709	C 9		
	4710	K 7		
	4712	H 5		
	4713	G 4		
	4714	F14		
	4715	F 4		
	4716	H 6		
N	4717	N 5		
	4718	J 3		
	4720	G 5		
	4721	E 3		
	4723	C17		
	5701	L13		
	5703	B12		
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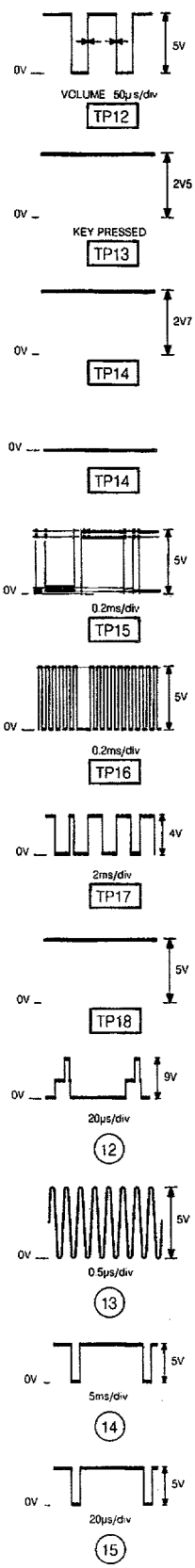
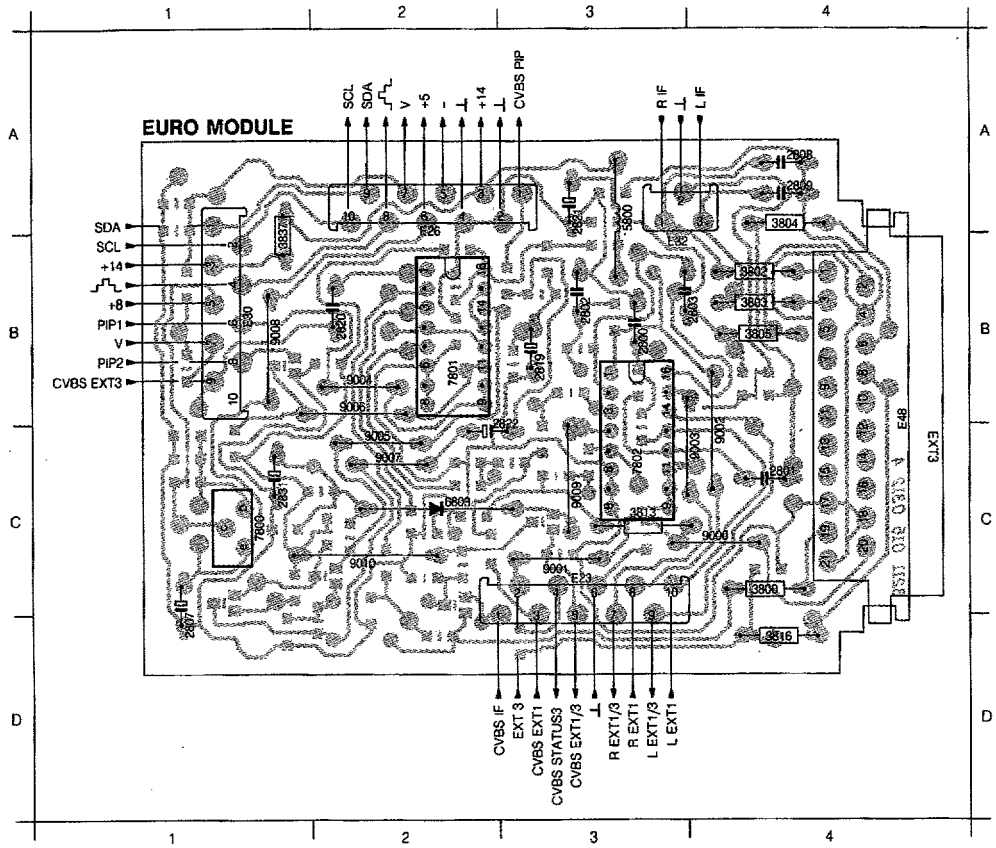
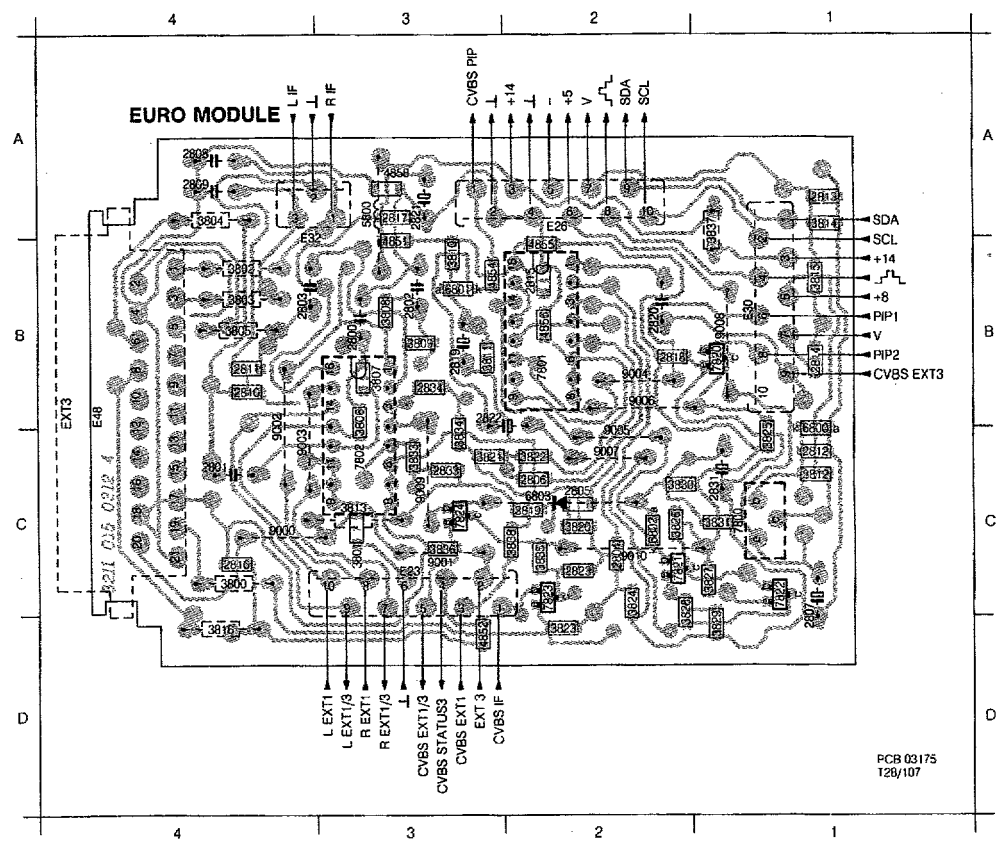
	7702	D14		



PRS 06912
T 26/105

Euro module
Euro-AV-Platte
Module Prise Péritélévision





E23 C3
E26 B2
E30 B1
E32 B3
E48 C4
2800 B3
2801 C4
2802 B3
2803 B4
2804 C2
2805 C2
2806 C2
2807 D1
2808 A4
2809 A4
2810 B4
2811 B4
2812 C1
2813 A1
2814 B1
2815 B2
2816 C4
2817 A3
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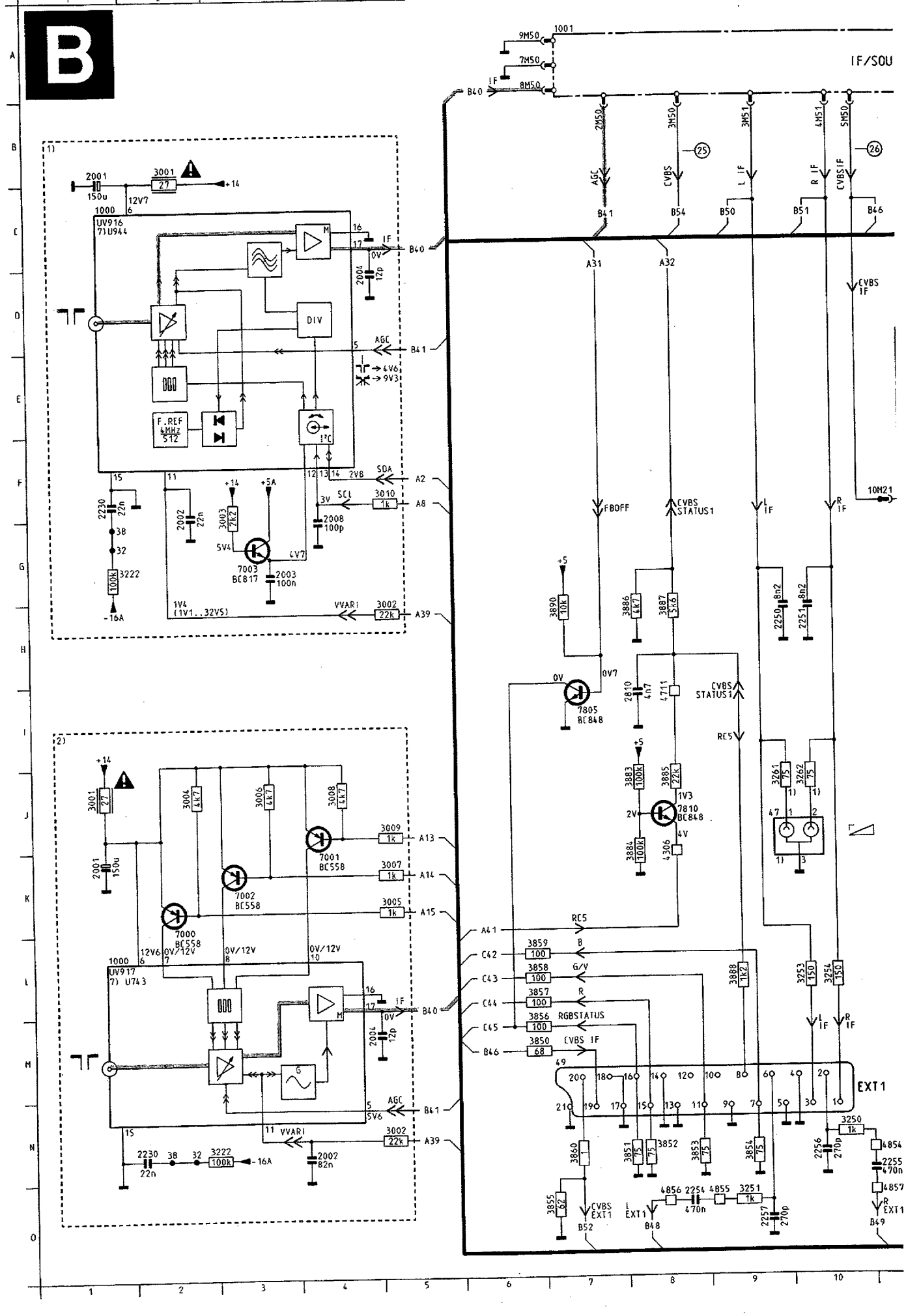
9010 C2

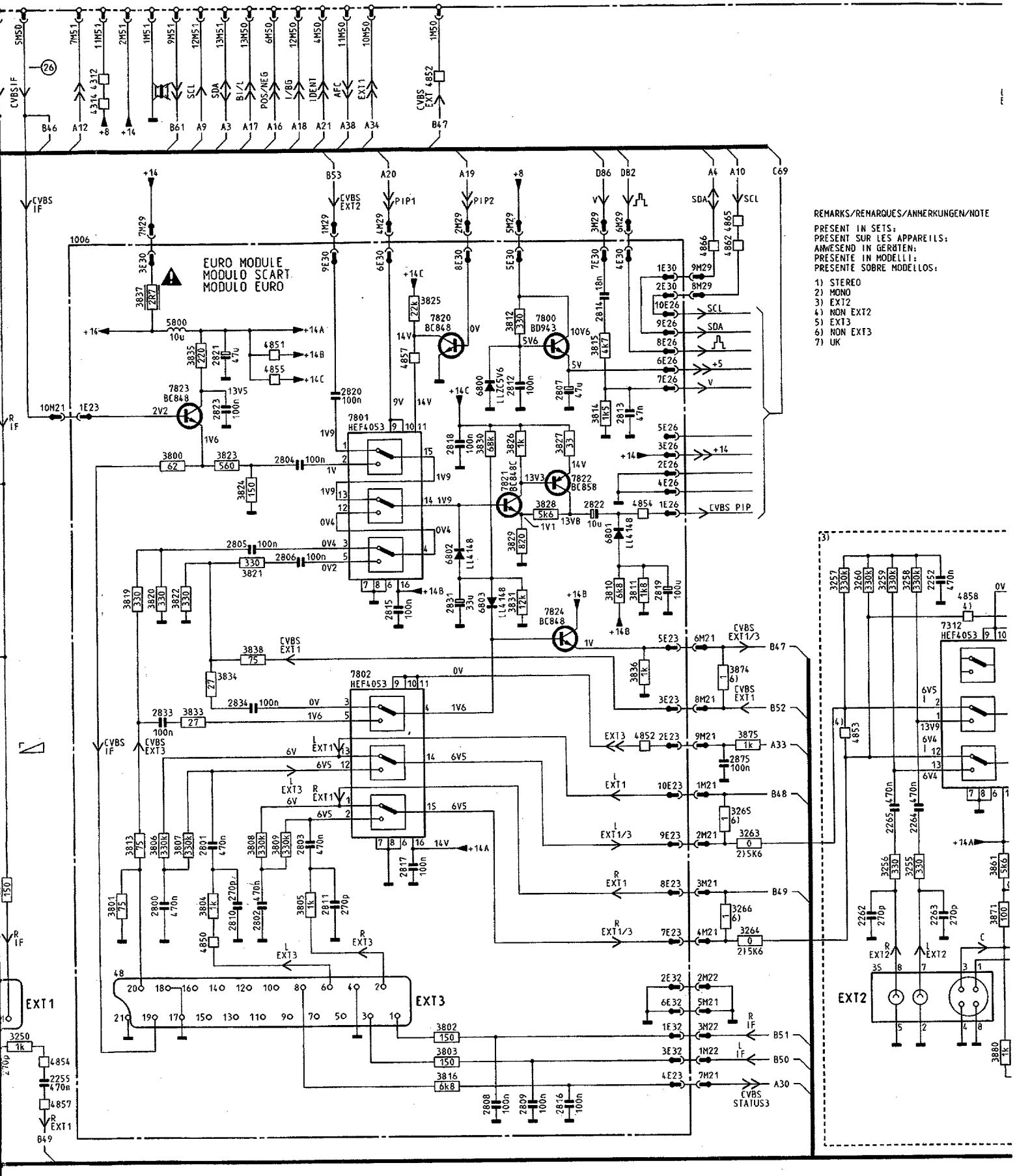
Tuner / Kanalwähler / Sélecteur



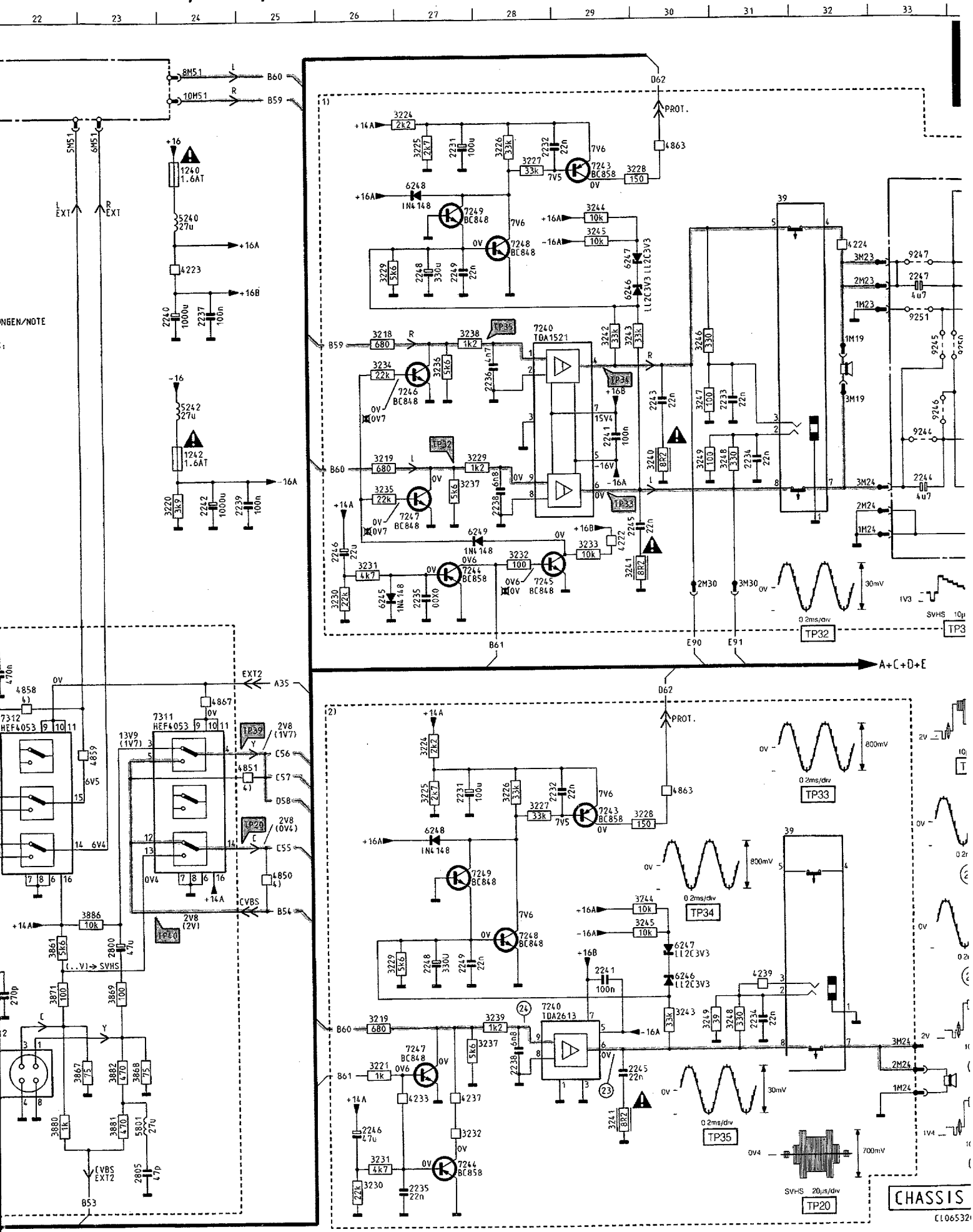
IF / ZF / FI

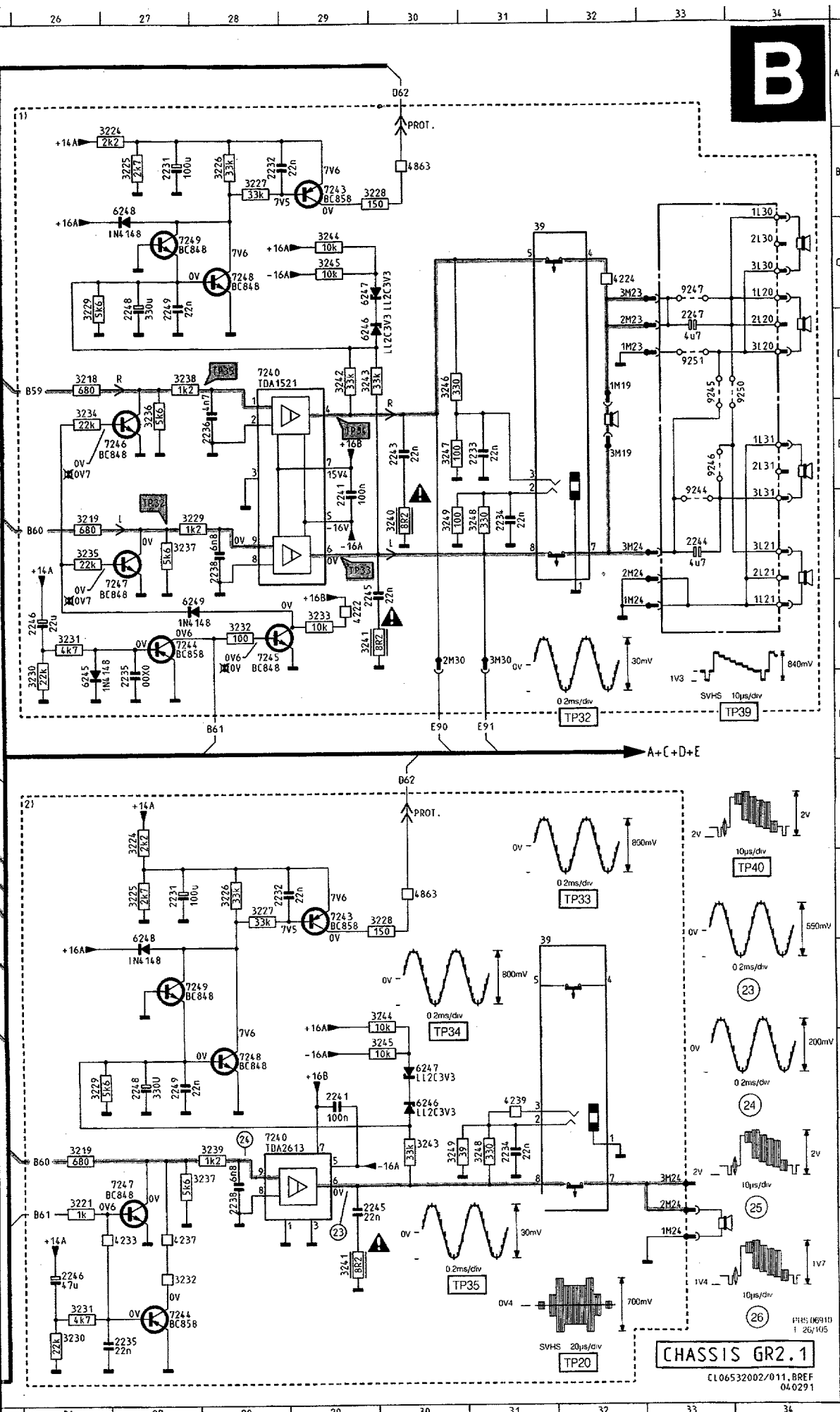
IF/SOUND MODULE ZF/TON MODUL MODULE FI/SON

G: MONO
H: STEREO/ESTEREO
I: NICAM



Sound / Ton / Son





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1242	F24	3231	O26	4239	L31
2001	K 1	3231	G26	4306	K 8
2001	B 1	3232	N27	4312	B11
2002	N 4	3232	G28	4314	C11
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2008	G 4	3237	M27	4850	K25
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2241	L29	3249	M30	4865	D19
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2245	N29	3254	L10	5242	E24
2245	G30	3255	L21	5800	E12
2246	N26	3256	L21	5801	N23
2246	G26	3257	H20	6245	H26
2247	D33	3258	H21	6246	L30
2248	L27	3259	H21	6246	D30
2248	C27	3260	H21	6247	L30
2249	L27	3261	J 9	6247	C30
2249	C27	3262	J10	6248	B27
2250	H 1	3263	L19	6248	K27
2251	H10	3264	M19	6249	G28
2252	H21	3265	K19	6800	F16
2254	O 8	3266	L19	6801	H18
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2257	O 9	3802	N15	7000	K 2
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2803	L14	3811	I18	7244	G27
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2807	F17	3816	N15	7248	L28
2808	O16	3819	I12	7248	C28
2809	O16	3820	I12	7249	K27
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3004	J 2	3857	L 6		
3005	K 5	3858	L 6		
3006	J 3	3859	L 6		
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3224	I27	3883	J 8		
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3225	B27	3886	H 8		
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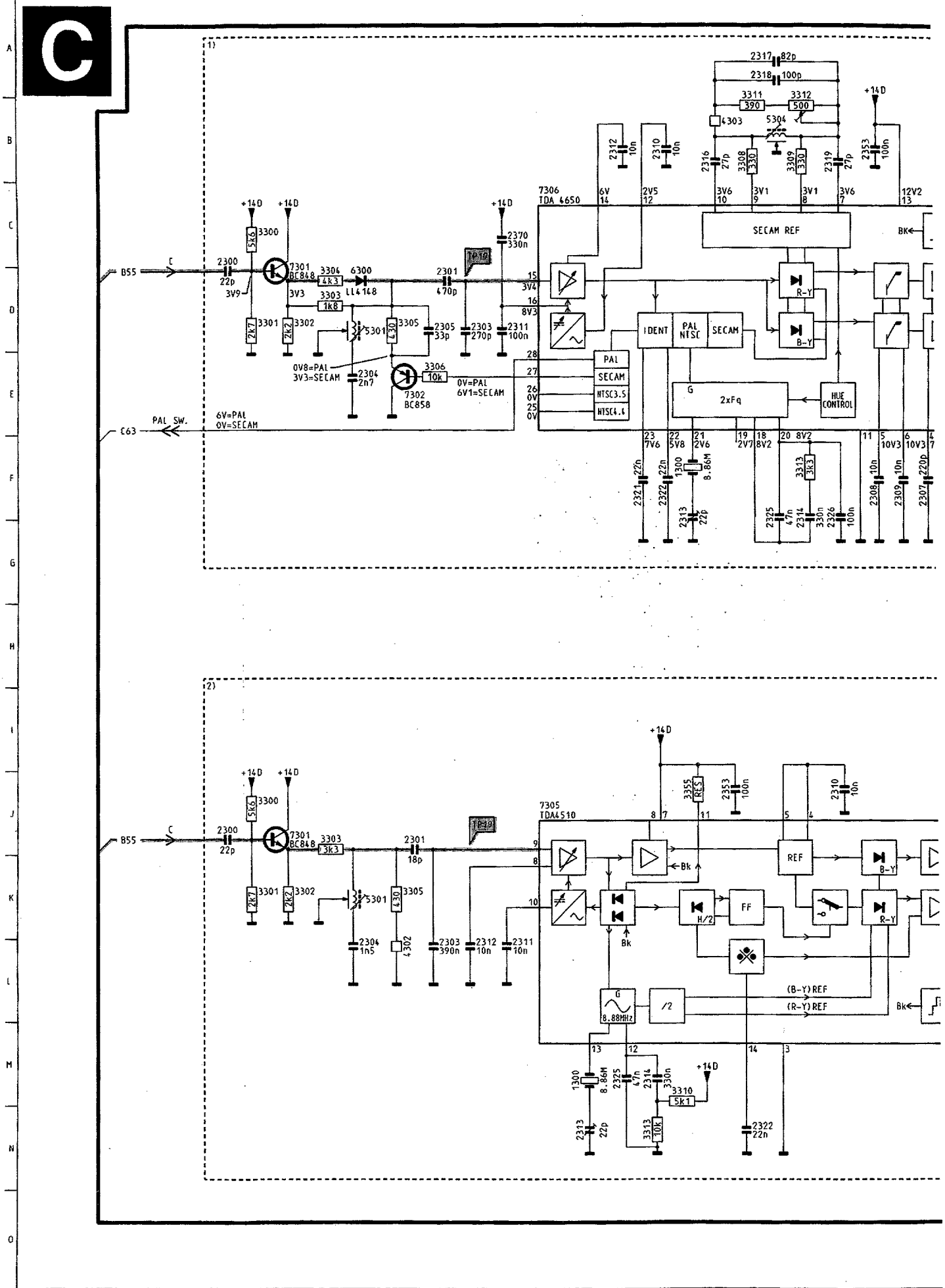
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2)
7306 TDA 4650
7305 TDA4510
SECAM REF
IDENT
PAL NTSC
SECAM
R-Y
B-Y
2xFq
HUE CONTROL
PAL
SECAM
NTSC3.5
NTSC4.4
REF
FF
H/2
/2
8.88MHz
(B-Y)REF
(R-Y)REF
B55
C63
PAL SW.
6V=PAL
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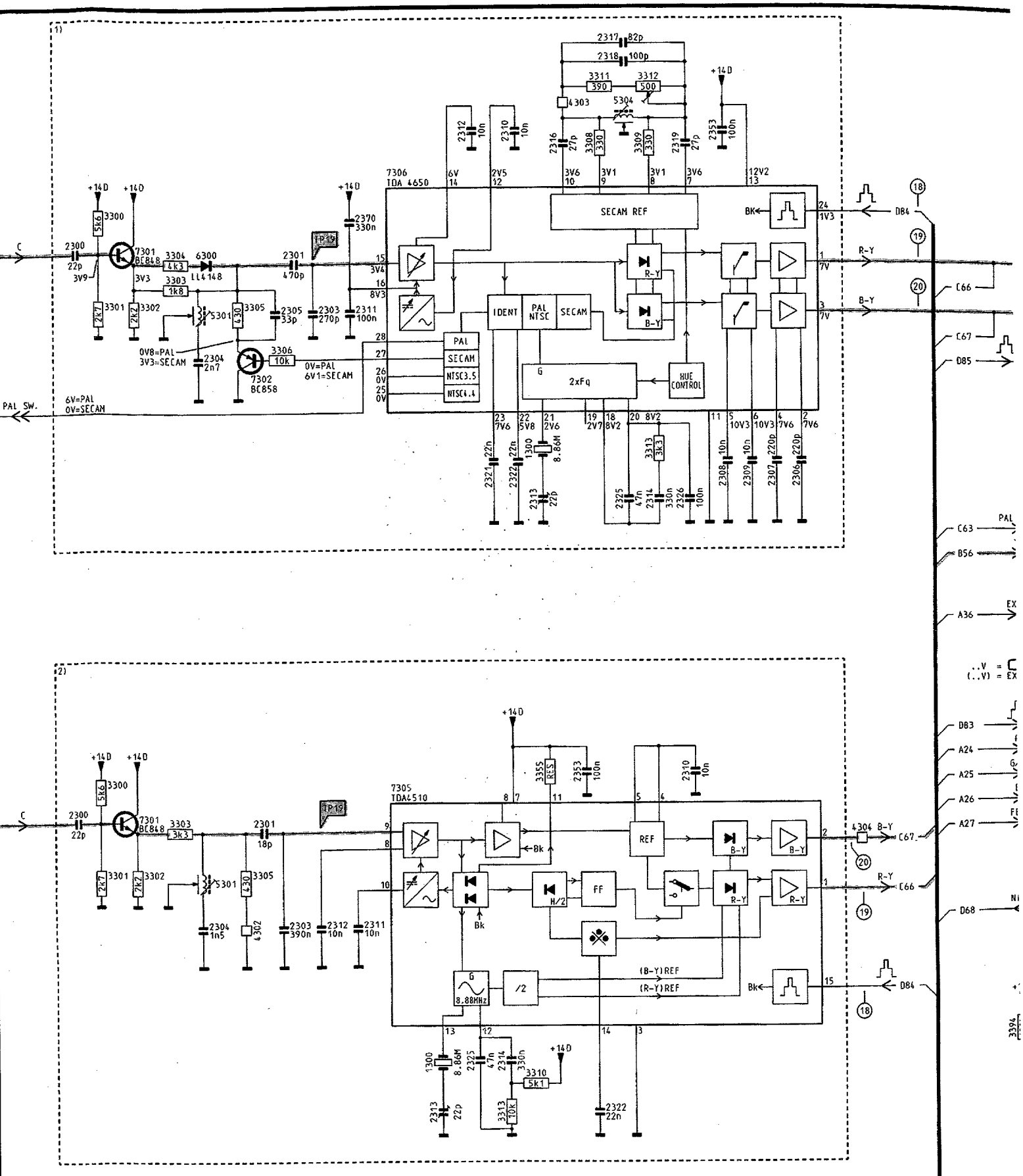
3V3=SECAM
0V=PAL
6V1=SECAM
7302 BC858
+14D
Bk

Video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IDENT
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SECAM
2xFq
HUE CONTROL
R-Y
B-Y
PAL
SECAM
NTSC3.5
NTSC4.4
7301 BC848
7302 BC858
LL4148
TP19
PAL SW.
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0V=SECAM
0V8=PAL
3V3=SECAM
0V=PAL
6V1=SECAM
2)
7305
TDA4510
REF
FF
H/2
/2
8.88MHz
(B-Y)REF
(R-Y)REF
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D83
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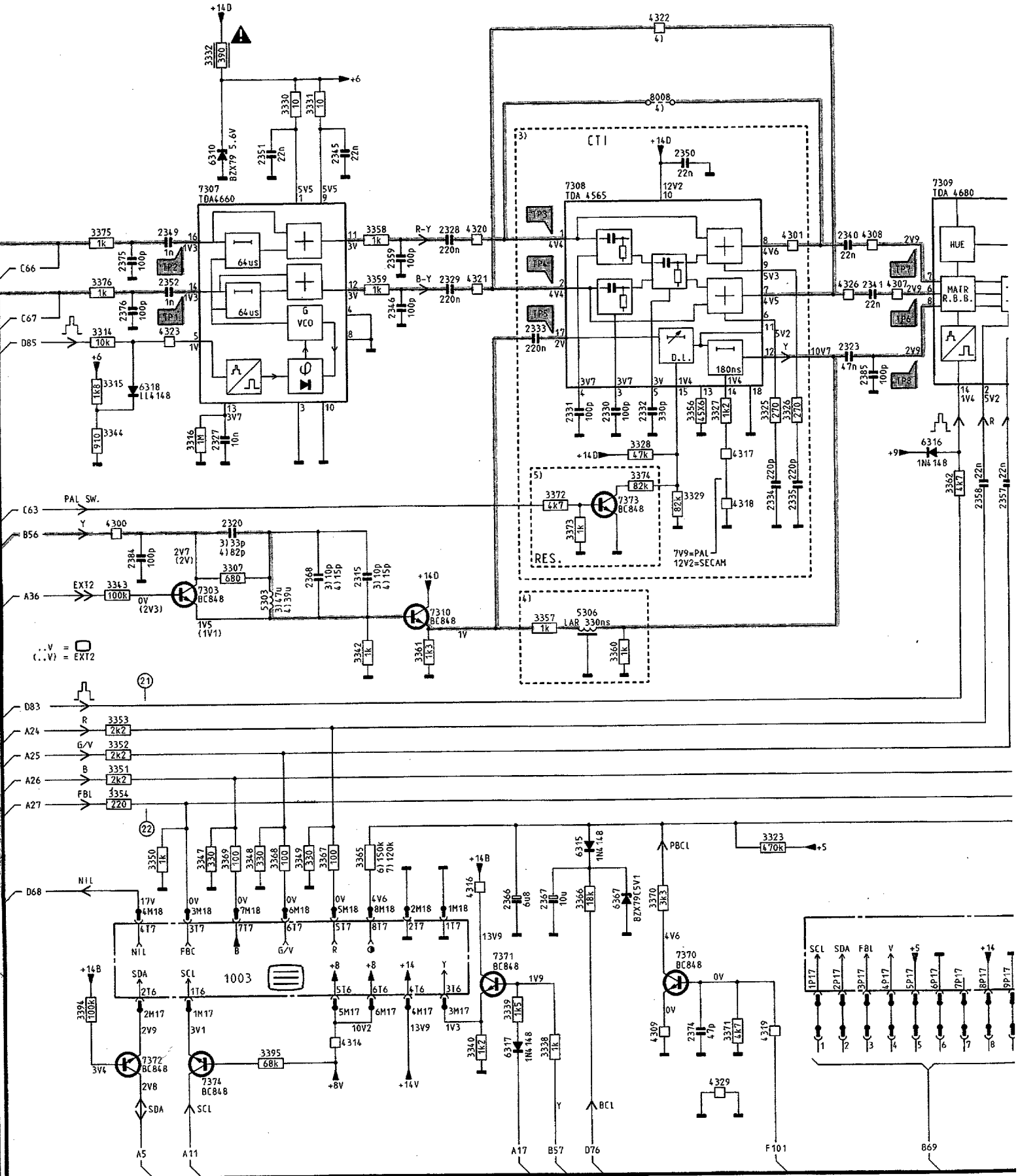
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CTI
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7372 BC848
7373 BC848
7374 BC848
7370 BC848
7371 BC848
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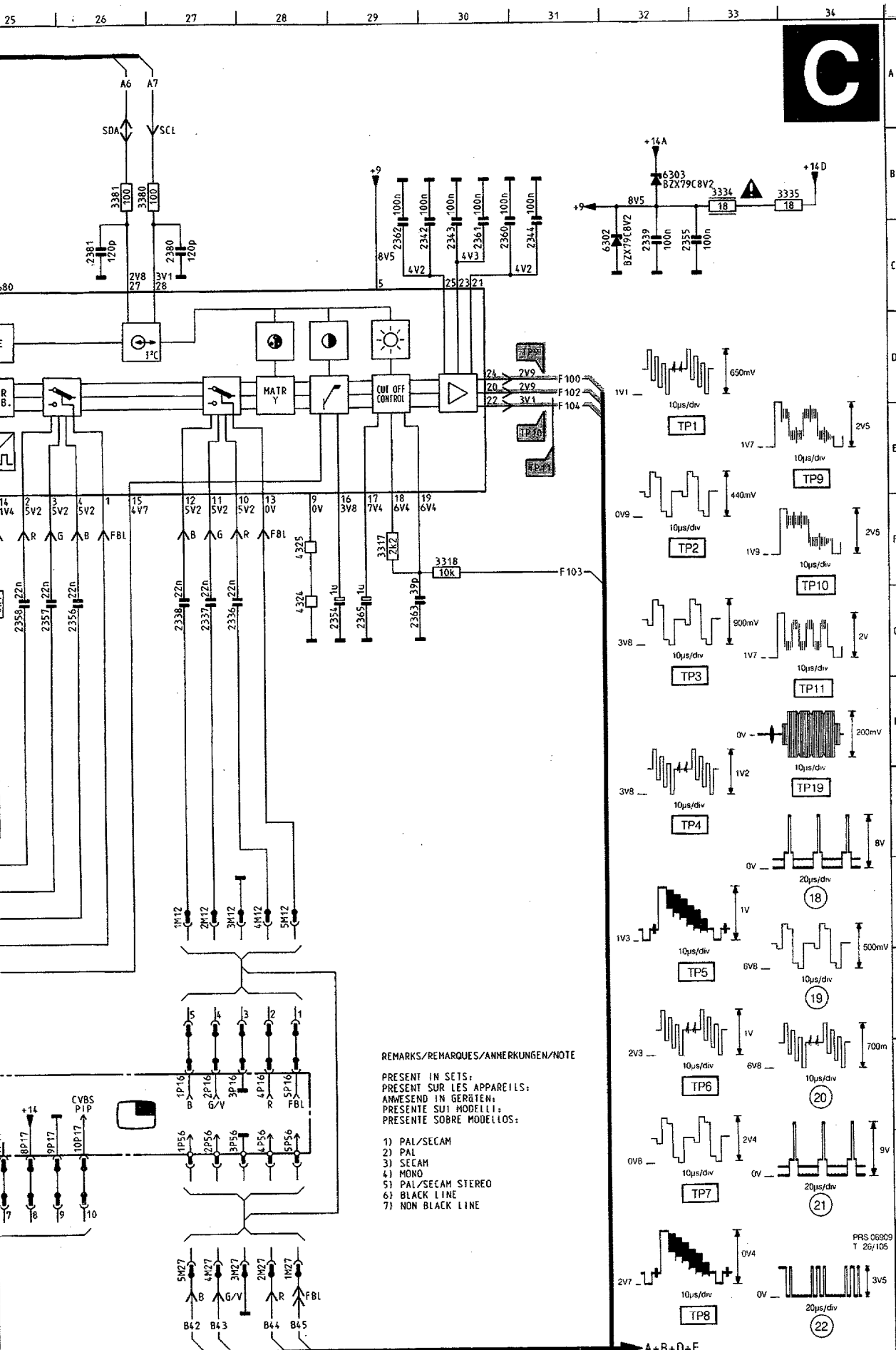
EXT2
SDA
SCL
HUE
MATR R.B.B.
LAR 330ns
64us
VCO
D.L.
180ns



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2303	D 6	3338	M20	
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2304	E 4	3340	M19	
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2315	H18	3360	I21	
2316	B 9	3361	I18	
2317	A 9	3362	G25	D
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2320	G16	3367	K17	
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2322	N 9	3369	K16	
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2339	C32	4309	M21	
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2363	G29	6315	K20	
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3305	K 5			
3306	E 5			
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3310	M 8			
3311	B 9			N
3312	B10			
3313	F10			
3313	N 8			
3314	E15			
3315	E15			
3316	F16			
3317	F29			
3318	F30			
3323	K23			O
3325	F23			
3326	F23			
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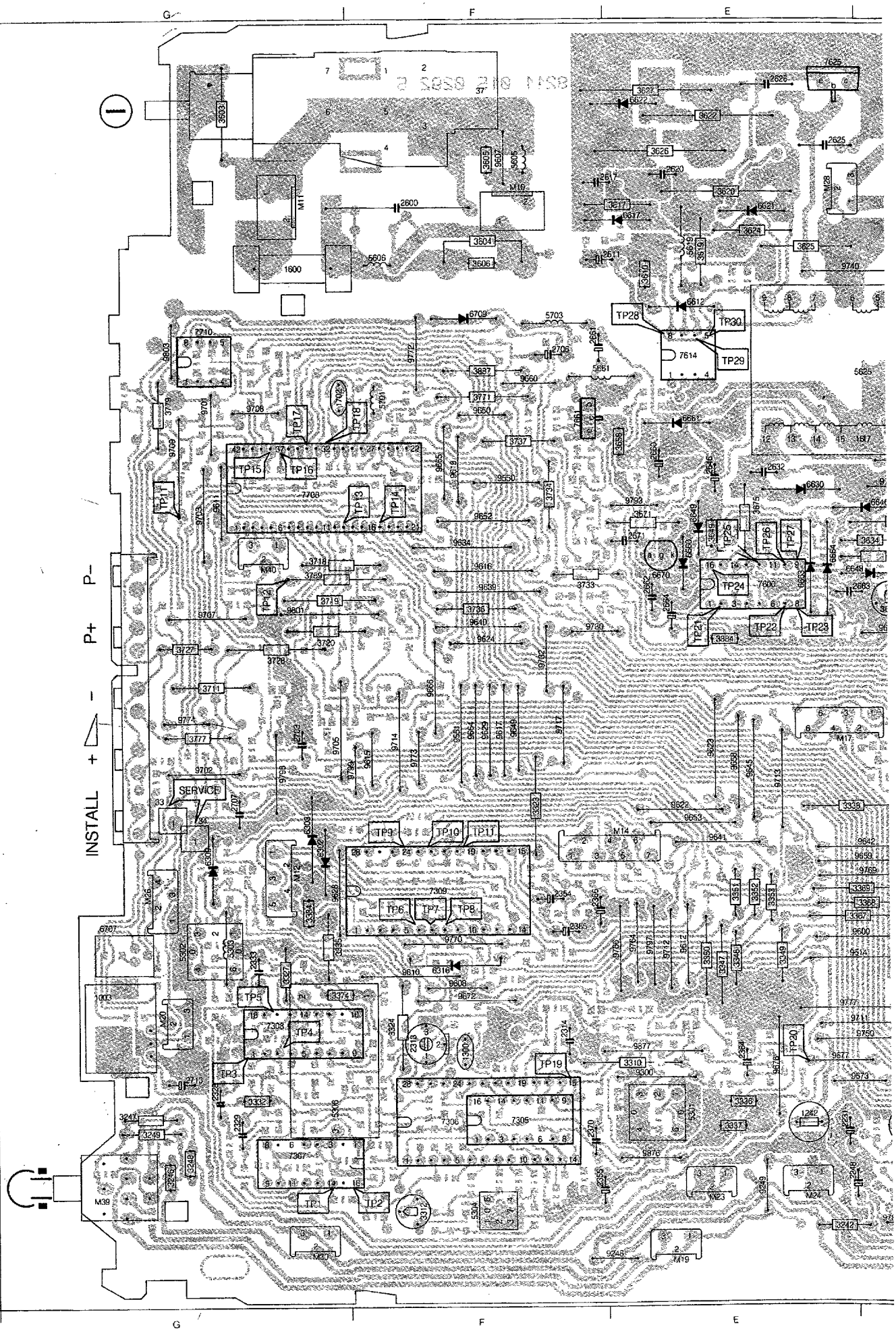
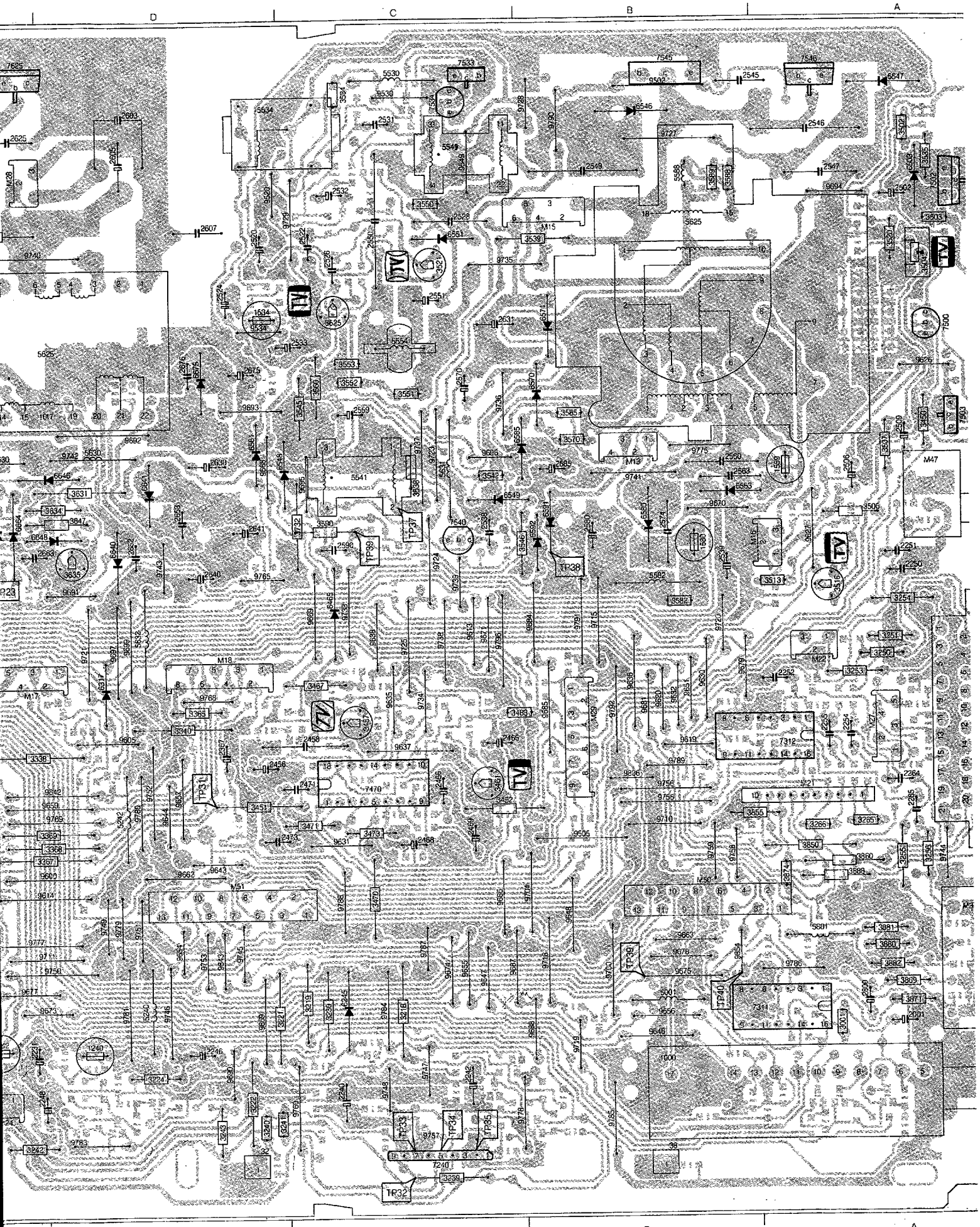
3328	F21			

Monocarrier / Hauptplatine / Châssis

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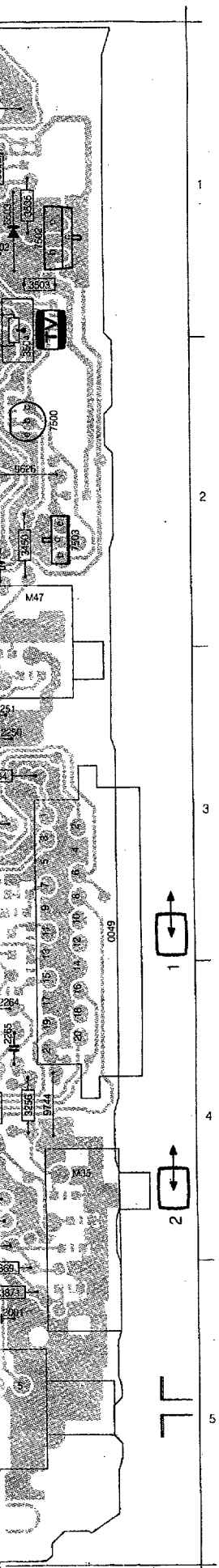

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38	5B	3249	5G	5661	2F	9677	5E
M10	1F	3250	3A	5701	2F	9678	4B
M11	1G	3251	3A	5703	2F	9679	3B
M12	4G	3253	3A	5801	4A	9681	3B
M13	2B	3254	3A	6245	5C	9684	3B
M14	4E	3255	4A	6302	4G	9685	3B
M15	1B	3256	4A	6303	4G	9686	4C
M16	3A	3265	4A	6309	4G	9687	4C
M17	3E	3266	4A	6316	4F	9688	5B
M18	3D	3310	5E	6317	3D	9690	5D
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M22	3A	3327	4G	6547	1A	9694	1A
M23	5E	3332	5G	6548	2C	9695	2C
M24	5E	3334	4G	6549	2C	9696	2C
M26	4G	3335	4G	6551	1C	9697	3D
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M40	3G	3349	4E	6591	3B	9705	3G
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2248	5E	3502	1A	7240	5C	9729	1C
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2252	3A	3506	3A	7307	5G	9733	3C
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2255	3A	3513	3A	7309	4F	9735	1C
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2265	4A	3520	1A	7312	4A	9737	2C
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2458	3C	3560	2C	7708	2G	9751	4D
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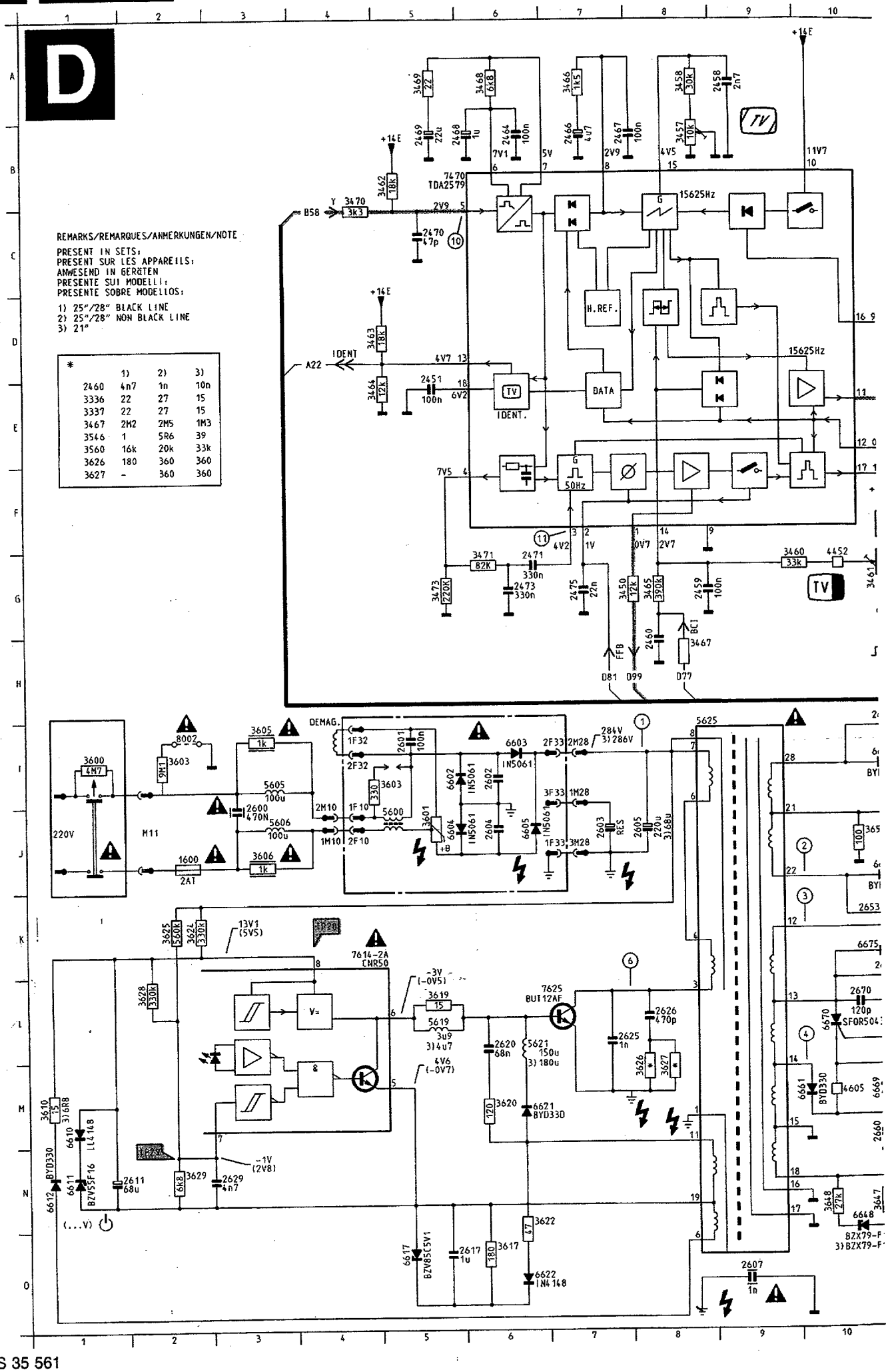
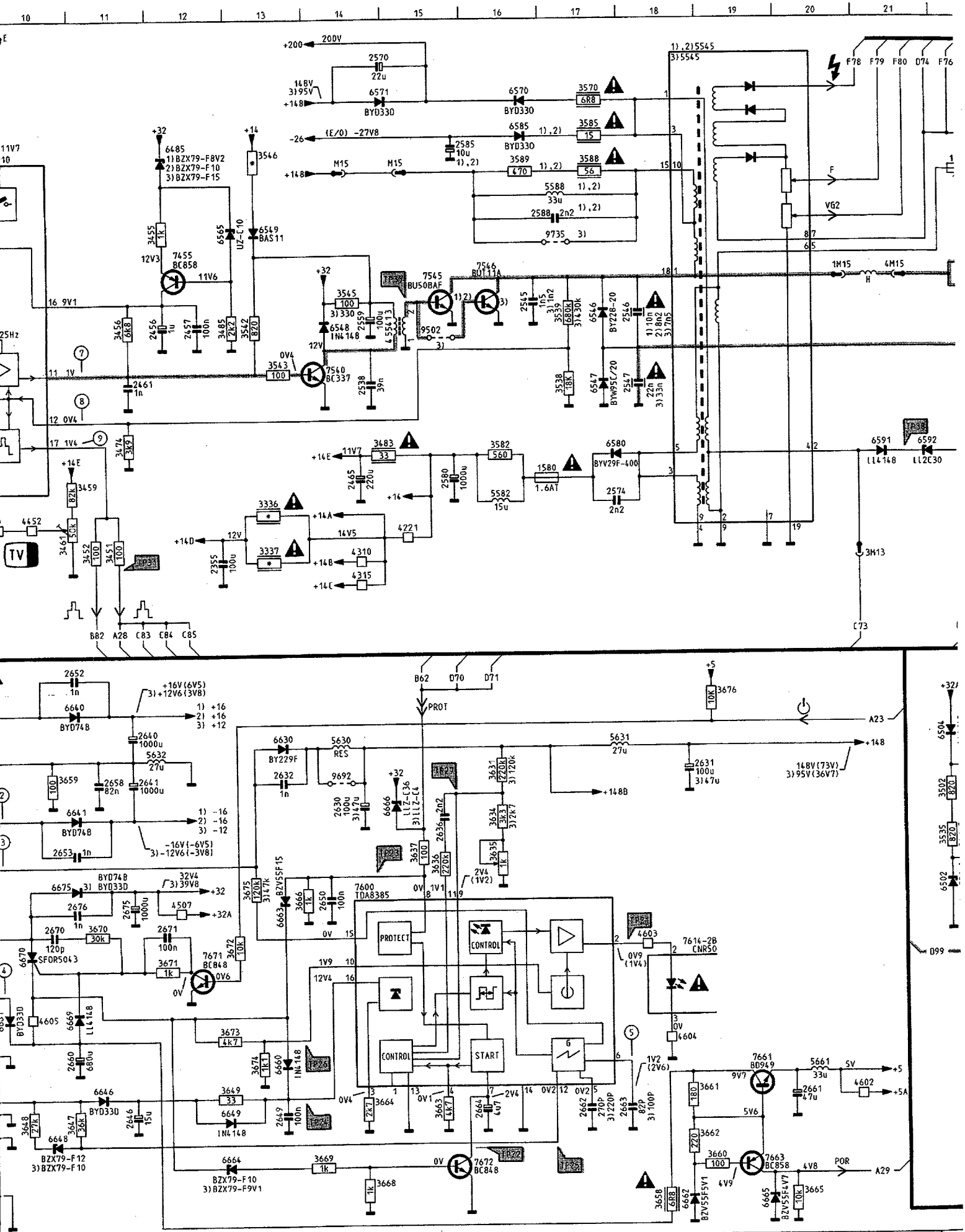
Power supply / Stromversorgung / Alimentation

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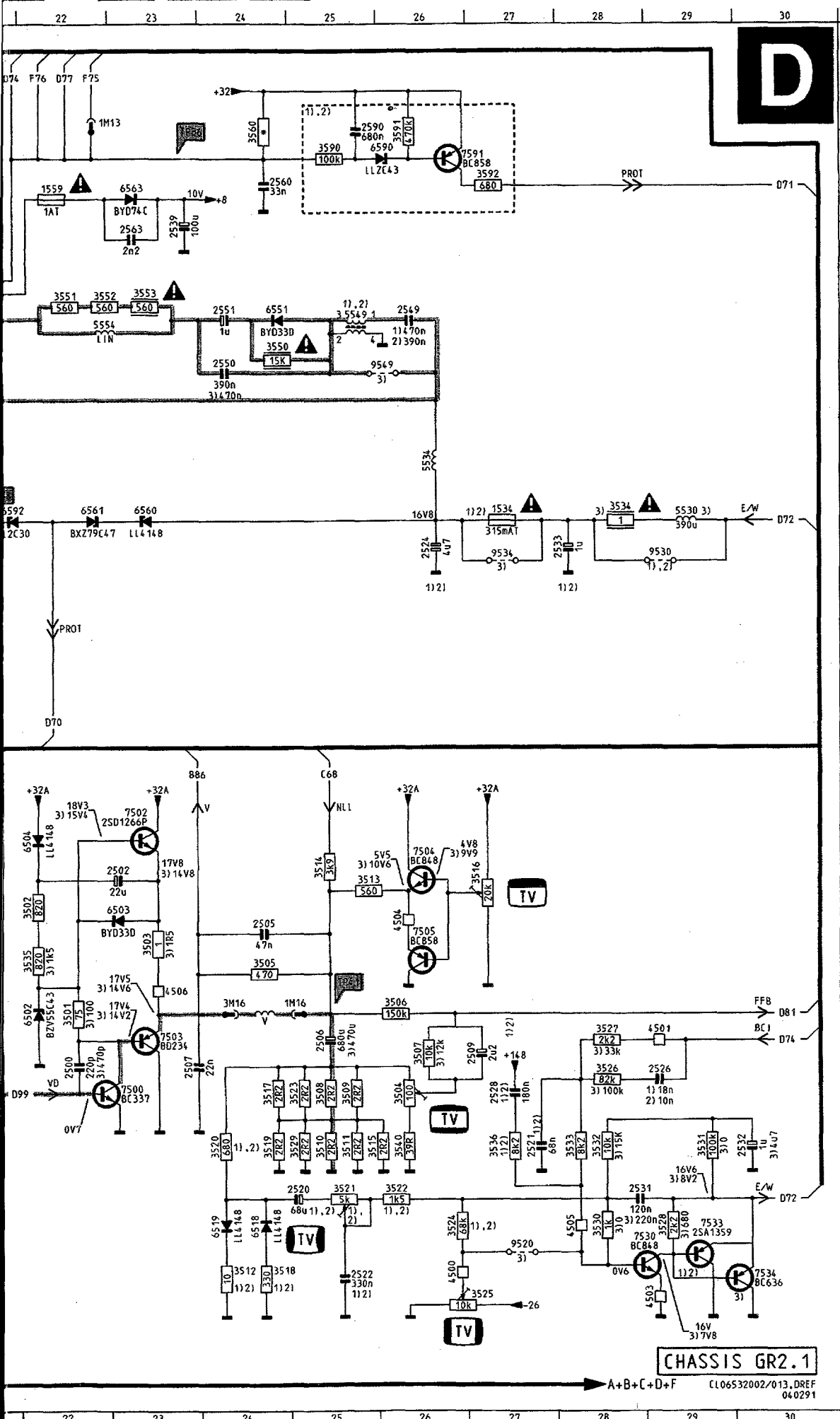
Synchronization / Synchronisation



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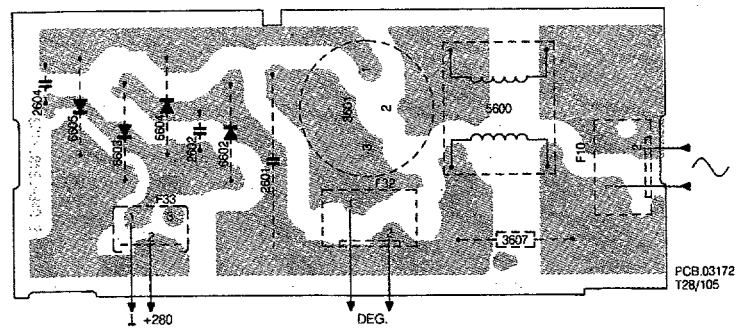
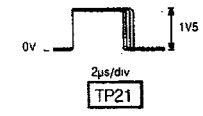
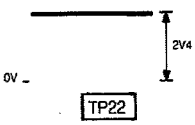
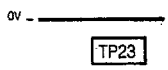
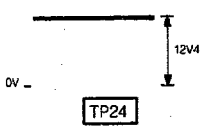
Mains module
Netzteil
Module secteur

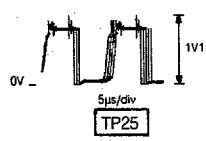


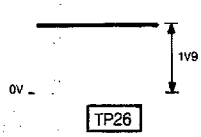


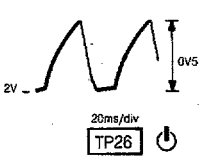


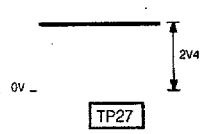


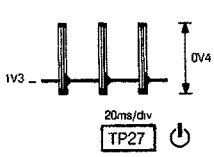


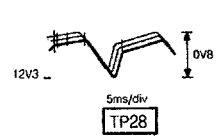


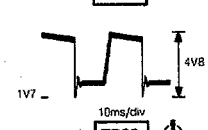


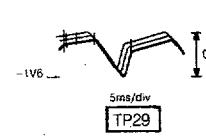


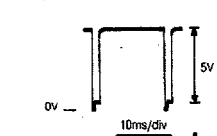


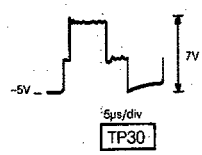


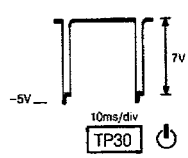


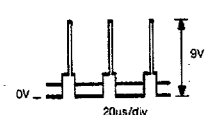


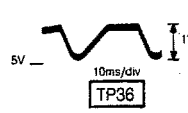


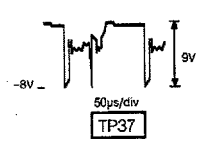


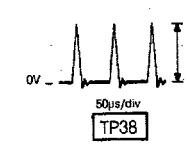


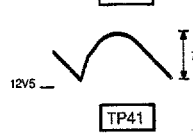


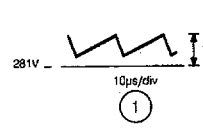


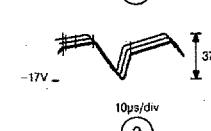


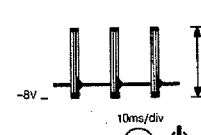


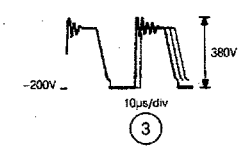


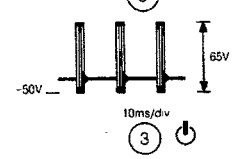


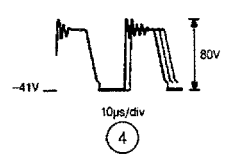


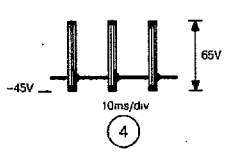


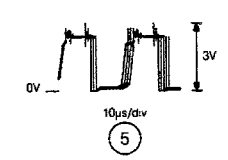


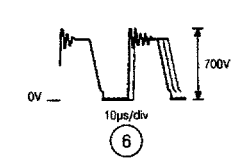


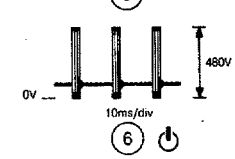


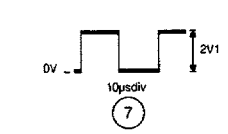


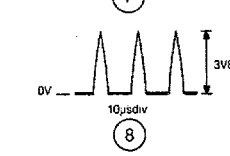


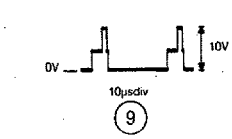


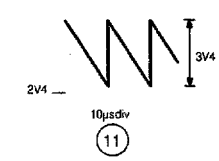












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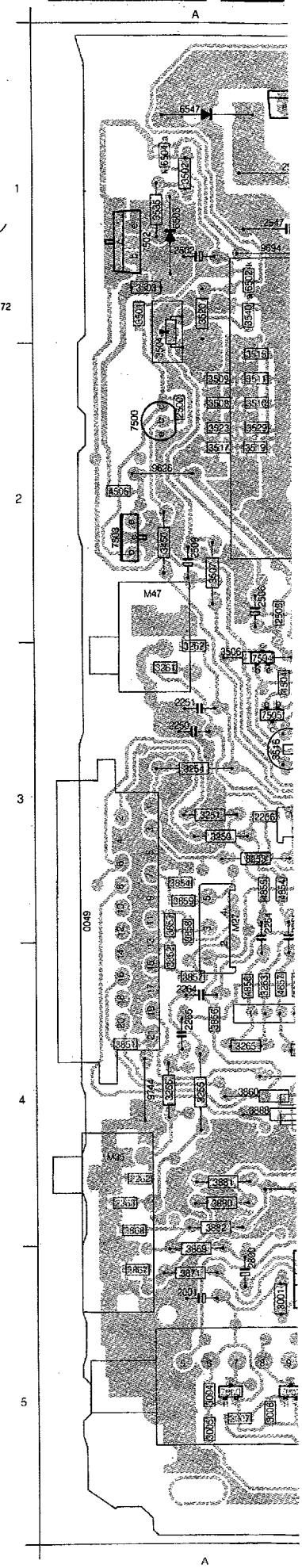
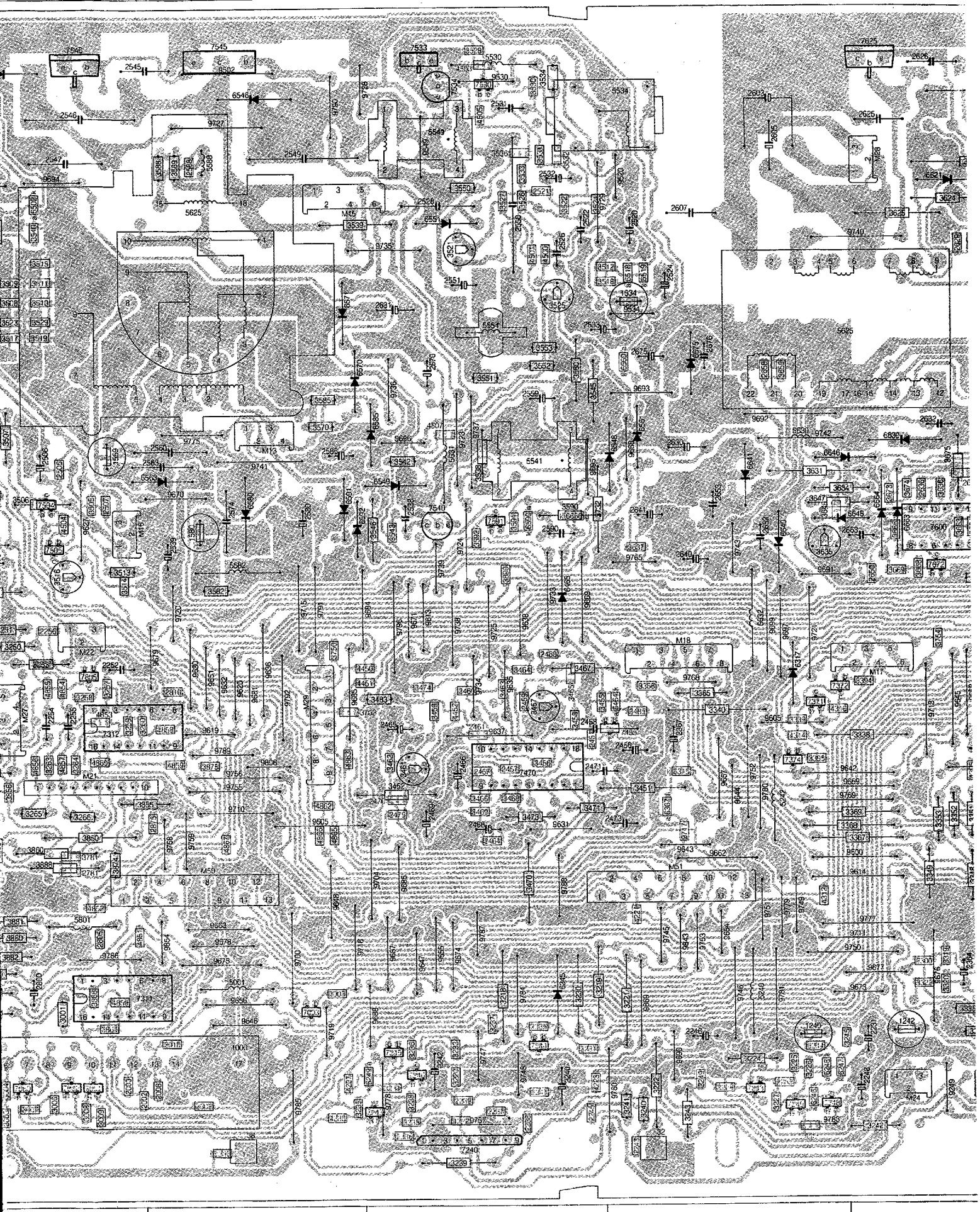
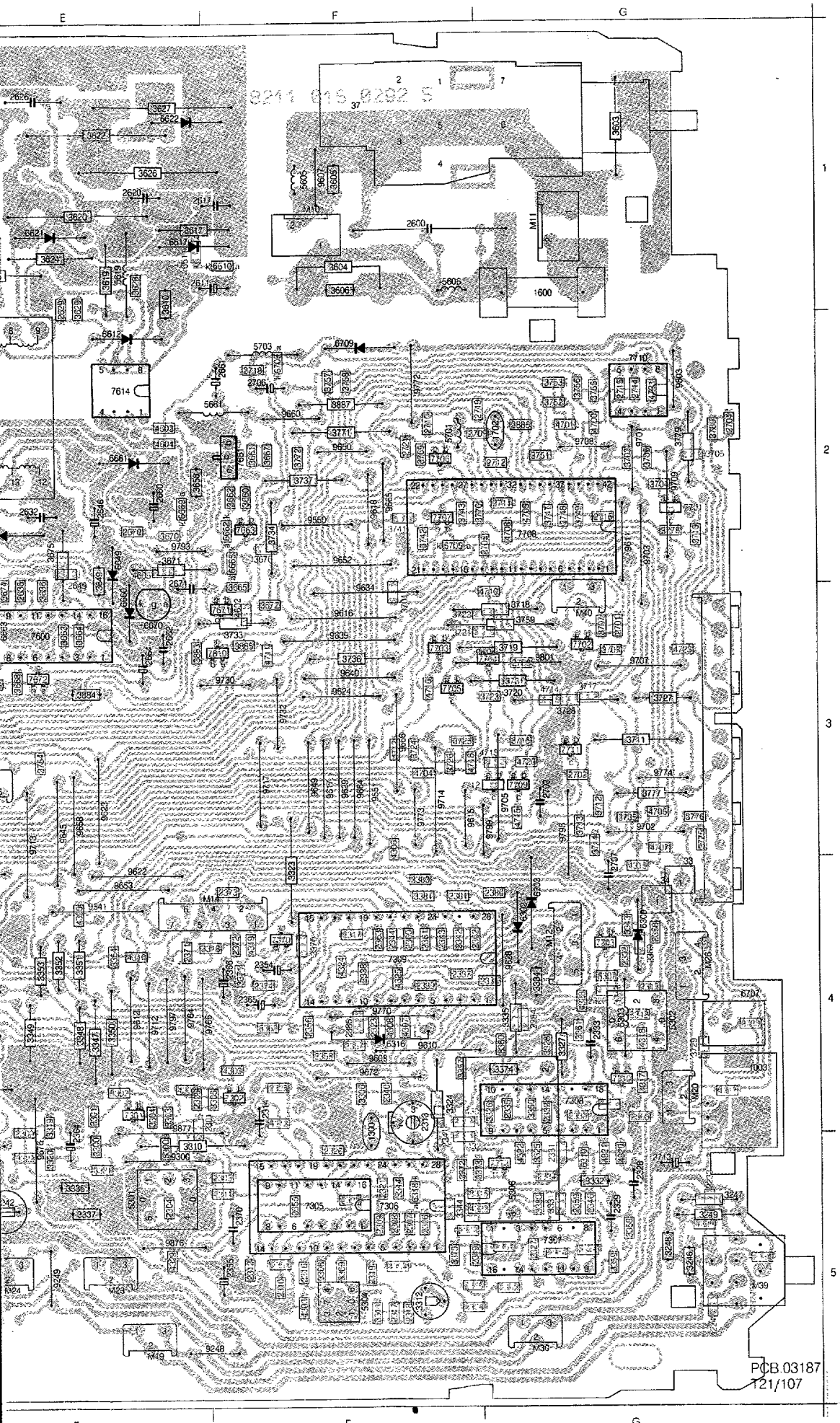


Monocarrier / Hauptplatine / Châssis





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38 5G	2375 5G	3241 5G	35
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M14 4G	2385 4G	3246 5A	35
M15 1G	2451 4G	3247 5A	35
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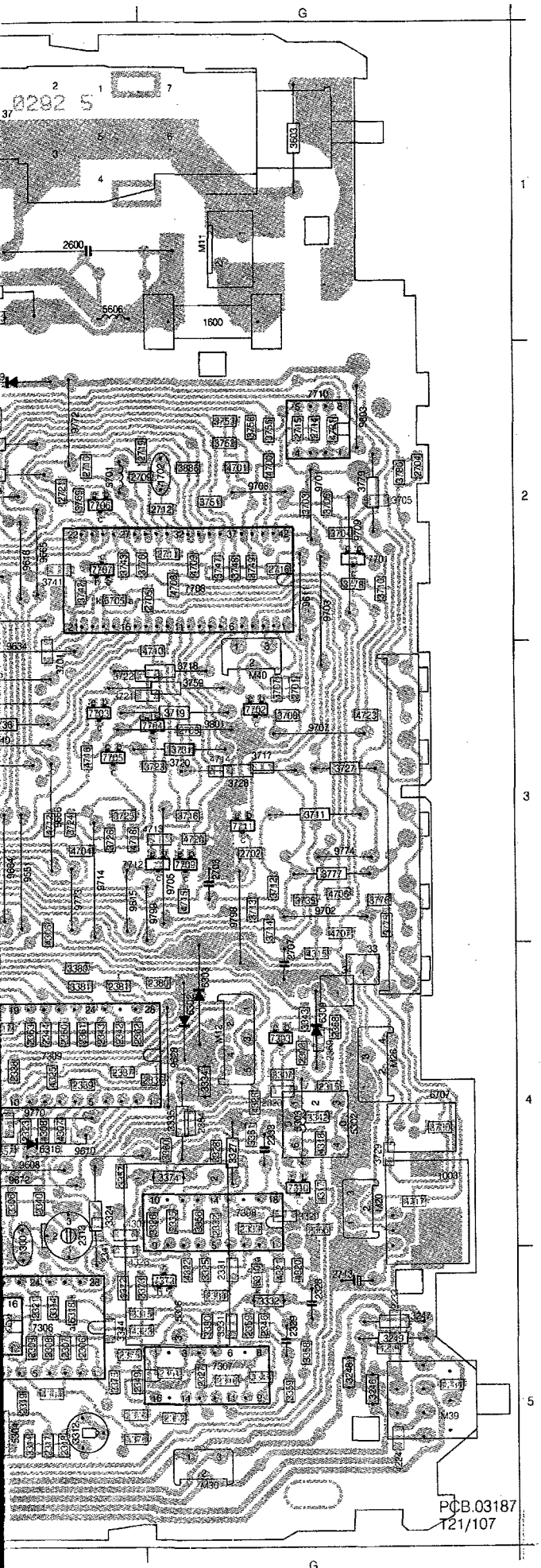

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1000	5G	2509	2G	3303	4G	3560	2G	4222	5G	6590	3G	9649	3G		
1003	4A	2520	1G	3304	4G	3570	2G	4223	5G	6591	3G	9650	2G		
1240	5G	2521	1G	3305	4G	3582	3G	4224	5A	6592	3G	9651	3G		
1242	5G	2522	1G	3306	4G	3585	2G	4233	5G	6610	1G	9652	2G		
1300	5G	2524	2G	3307	4A	3588	1G	4237	5G	6611	1G	9653	4G		
1534	2G	2526	1G	3308	5G	3589	1G	4239	5A	6612	2G	9654	4G		
1559	2G	2528	1G	3309	5G	3590	3G	4300	4G	6617	1G	9655	4G		
1580	3G	2531	1G	3310	5G	3591	3G	4301	4G	6621	1G	9656	5G		
1600	1A	2532	1G	3311	5G	3592	3G	4302	4G	6622	1G	9657	4G		
1702	2A	2533	2G	3312	5G	3603	1A	4303	5G	6630	2G	9658	3G		
2001	5G	2538	3G	3313	4G	3604	1G	4304	5G	6640	3G	9659	4G		
2002	5G	2539	3G	3314	5G	3605	1G	4305	4G	6641	2G	9660	2G		
2003	5G	2545	1G	3315	5G	3606	1G	4306	3G	6646	2G	9662	4G		
2008	5G	2546	1G	3316	5A	3610	1G	4307	4G	6648	3G	9663	4G		
2230	5G	2547	1G	3317	4G	3617	1G	4308	4G	6649	2G	9664	3G		
2231	5G	2549	1G	3318	4G	3619	1G	4310	4G	6660	3G	9665	2G		
2232	5G	2550	1G	3319	4G	3620	1G	4312	4G	6661	2G	9666	3G		
2233	5A	2551	2G	3320	5G	3622	1G	4314	4G	6662	2G	9668	2G		
2234	5A	2559	2G	3321	5G	3624	1G	4315	4A	6663	3G	9669	3G		
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2236	5G	2563	2G	3323	4G	3626	1G	4317	4A	6665	2G	9671	3G		
2237	5G	2570	2G	3324	4G	3627	1G	4318	4A	6666	3G	9672	4G		
2238	5G	2574	3G	3325	5A	3628	1G	4319	4G	6669	2G	9673	5G		
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2249	5G	2611	1G	3335	4A	3649	3G	4329	5G	7002	5G	9685	3G		
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2252	3G	2625	1G	3338	4G	3660	2G	4452	3G	7243	5G	9688	5G		
2254	3G	2626	1G	3339	3G	3661	2G	4500	2G	7244	5G	9690	5G		
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2257	3G	2631	2G	3343	4A	3664	3G	4504	3G	7247	5G	9693	2G		
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2263	4G	2636	3G	3347	4G	3666	3G	4506	2G	7249	5G	9695	2G		
2264	4G	2640	3G	3348	4G	3667	2G	4507	2G	7301	4G	9696	2G		
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2317	5G	2703	3A	3369	4G	3711	3A	4717	4A	7502	1G	9718	4G		
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2322	5G	2708	3A	3374	4A	3717	3A	4850	5G	7533	1G	9724	3G		
2323	4G	2709	2G	3375	5G	3718	3A	4851	4G	7534	1G	9725	3G		
2325	4G	2710	2G	3376	5G	3719	3A	4852	4G	7540	3G	9727	1G		
2326	5G	2711	2A	3380	4G	3720	3A	4853	3G	7545	1G	9728	1G		
2327	5A	2712	2A	3381	4G	3721	3G	4854	3G	7546	1G	9729	1G		
2328	5A	2713	5A	3394	3G	3722	3G	4855	3G	7591	3G	9730	3G		
2329	5A	2714	2A	3395	4G	3723	3G	4856	4G	7600	3G	9732	3G		
2330	4A	2715	2A	3450	2G	3724	3G	4857	4G	7614	2G	9733	3G		
2331	5A	2716	2A	3451	4G	3725	3G	4858	4G	7625	1G	9734	3G		
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2335	4A	2721	2G	3457	3G	3729	4A	4863	4G	7672	3G	9738	3G		
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2339	4G	2810	3G	3461	4G	3733	3G	5001	5G	7704	3G	9742	2G		
2340	4G	2875	4G	3462	4G	3734	2G	5240	5G	7705	3G	9743	3G		
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2342	4G	3002	5G	3464	3G	3736	3G	5301	5G	7707	2G	9745	4G		
2343	4G	3003	5G	3465	3G	3737	2G	5302	4A	7708	2A	9746	5G		
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2346	5A	3006	5G	3468	4G	3743	2G	5306	5A	7711	3A	9749	4G		
2349	5G	3007	5G	3469	4G	3747	2A	5530	1G	7712	3G	9750	4G		
2350	4A	3008	5G	3470	4G	3748	2A	5534	1G	7805	3G	9751	4G		
2351	5A	3009	5G	3471	4G	3749	2A	5541	1G	7810	3G	9752	4G		
2352	5A	3010	5G	3473	4G	3750	3G	5541	2G	9248	5G	9753	4G		
2353	5G	3218	5G	3474	3G	3751	2A	5549	1G	9249	5G	9755	4G		
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2360	4G	3226	5G	3505	3G	3758	2G	5625	1G	9549	1G	9765	3G		
2361	4G	3227	5G	3506	3G	3759	3A	5625	2G	9550	2G	9766	4G		
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2366	4G	3232	5G	3511	2G	3775	3A	5701	2G	9608	4G	9773	3G		
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2368	4A	3234	5G	3513	3G	3777	3A	5801	4G	9611	2A	9775	2G		
2369	4A	3235	5G	3514	3G	3778	2A	6245	5G	9612	4G	9777	4G		
2370	5G	3236	5G	3515	2G	3779	2A	6246	5G	9613	3G	9778	5G		

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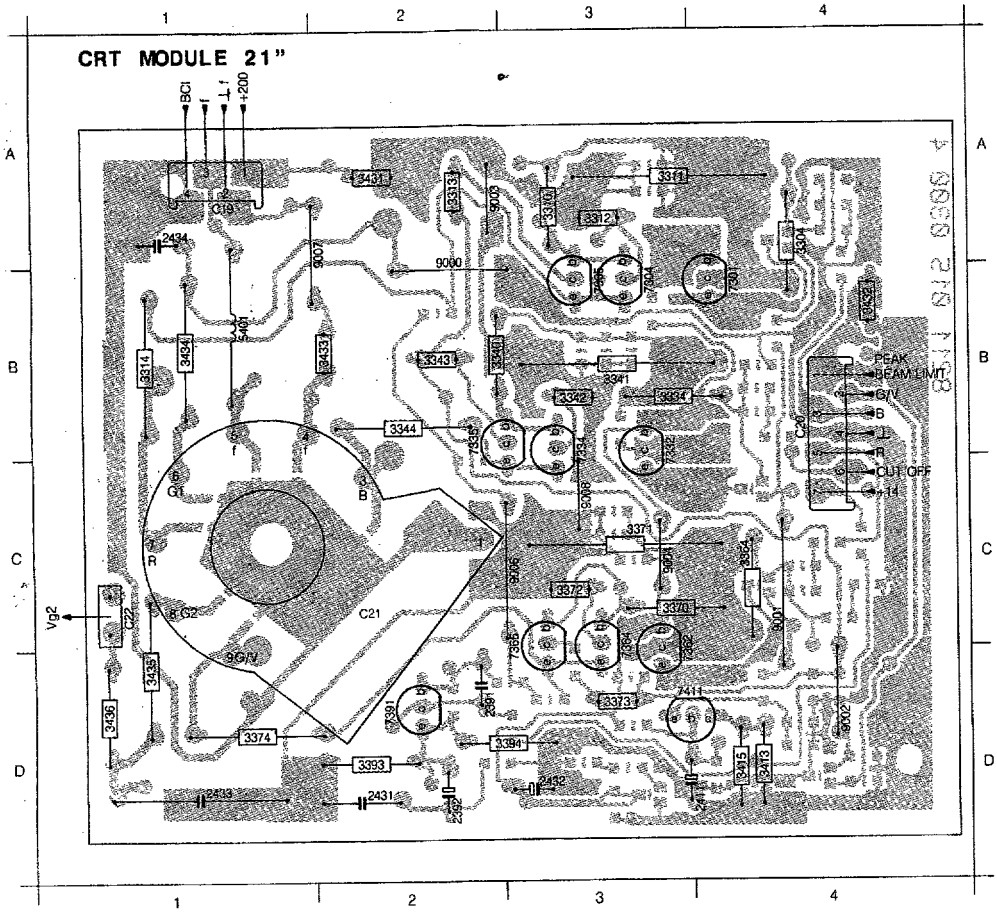

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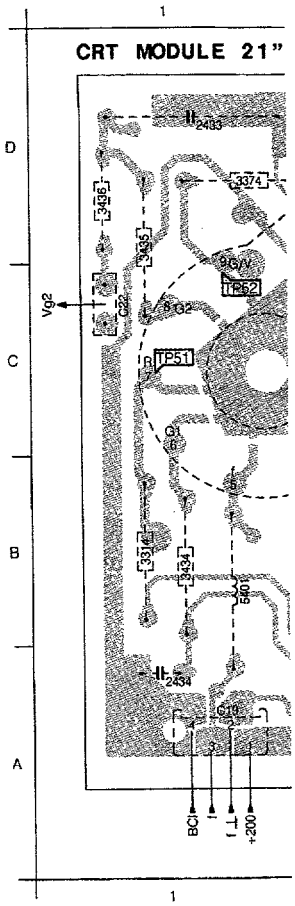
C21	C2	3431	A2
C22	C1	3432	B4
2301	A4	3433	B2
2331	B4	3434	B1
2361	C4	3435	D1
2391	D2	3436	D1
2392	D2	4000	C4
2411	D4	4002	D4
2412	D4	4005	D3
2421	D4	4006	C4
2431	D2	4009	B3
2432	D3	4010	B3
2433	D1	4011	B4
2434	A1	4012	D2
3301	B4	4014	D3
3302	A4	5401	B1
3303	A4	6301	B2
3304	A4	6331	C2
3310	A3	6345	D3
3311	A3	6361	D3
3312	A3	6421	D4
3313	A2	7301	B4
3314	B1	7303	A4
3315	A3	7304	B3
3316	A3	7305	B3
3331	B4	7332	C3
3332	B4	7333	C4
3333	B4	7334	C3
3334	B3	7335	B2
3340	B3	7345	D3
3341	B3	7362	D3
3342	B3	7363	C4
3343	B2	7364	D3
3344	B2	7365	D3
3345	D3	7391	D2
3361	C4	7411	D3
3362	C4	7421	D4
3363	C4	9000	B2
3364	C4	9001	C4
3370	C3	9002	D4
3371	C3	9003	A2
3372	C3	9004	C3
3373	D3	9006	C3
3374	D1	9007	A2
3375	C3	9008	C3
3376	C3		
3377	C3		
3391	D2		
3392	D2		
3393	D2		
3394	D2		
3395	D3		
3396	B3		
3397	B3		
3398	B3		
3411	D3		
3412	D4		
3413	D4		
3414	D4		
3415	D4		
3421	D4		



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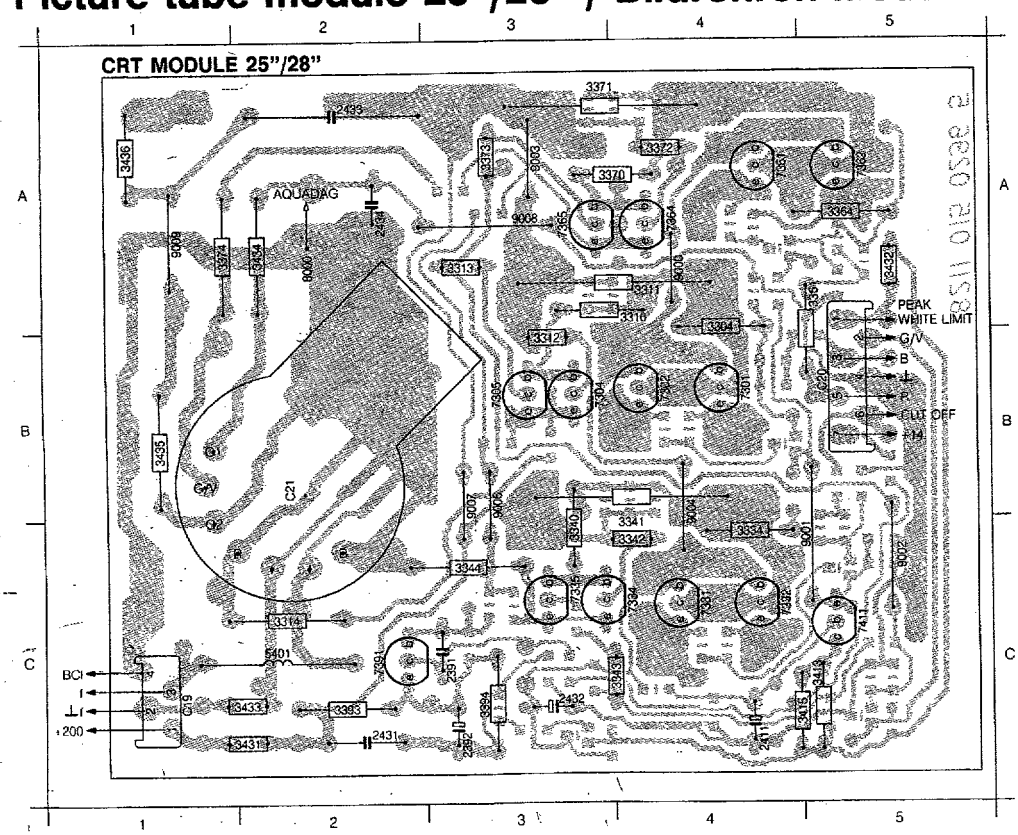

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C20	B5	3398	B4
C21	B2	3411	C4
2301	B4	3413	C5
2331	C5	3414	C5
2361	A5	3415	C5
2391	C3	3421	C5
2392	C3	3422	C5
2411	C4	3423	C3
2412	C5	3431	C1
2421	C5	3432	A5
2431	C2	3433	C1
2432	C3	3434	A2
2433	A2	3435	B1
2434	A2	3436	A1
3301	B4	4000	B5
3302	B4	4002	C5
3303	A4	4003	C3
3304	B4	4005	C3
3308	B4	4007	B3
3309	B4	4008	A3
3310	A4	4008	C4
3311	A4	4011	A4
3312	B3	5401	C2
3313	A3	6301	B3
3314	C2	6331	C3
3315	B3	6345	C3
3316	B4	6361	A3
3331	B5	6411	C4
3332	C5	6421	C5
3333	B5	7301	B4
3334	C4	7302	B4
3338	C4	7303	B4
3339	C4	7304	B3
3340	C3	7305	B3
3341	C4	7331	C4
3342	C4	7332	C4
3343	C4	7333	C5
3344	C3	7334	C4
3345	C3	7335	C3
3361	A5	7345	C3
3362	A5	7361	A4
3363	A5	7362	A5
3364	A5	7363	A4
3368	A4	7364	A4
3369	A4	7365	A3
3370	A3	7391	C2
3371	A3	7411	C5
3372	A4	7421	C5
3373	A3	8000	A2
3374	A1	9000	A4
3375	A3	9001	C5
3376	A4	9002	C5
3377	A4	9003	A3
3391	C3	9004	C4
3392	C3	9006	B3
3393	C2	9007	B3
3394	C3	9008	A3
3395	C3	9009	A1
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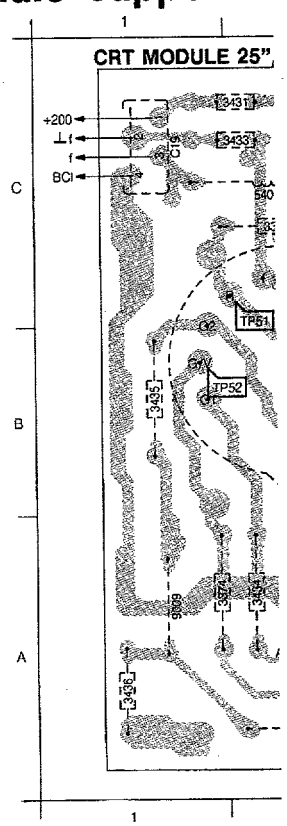

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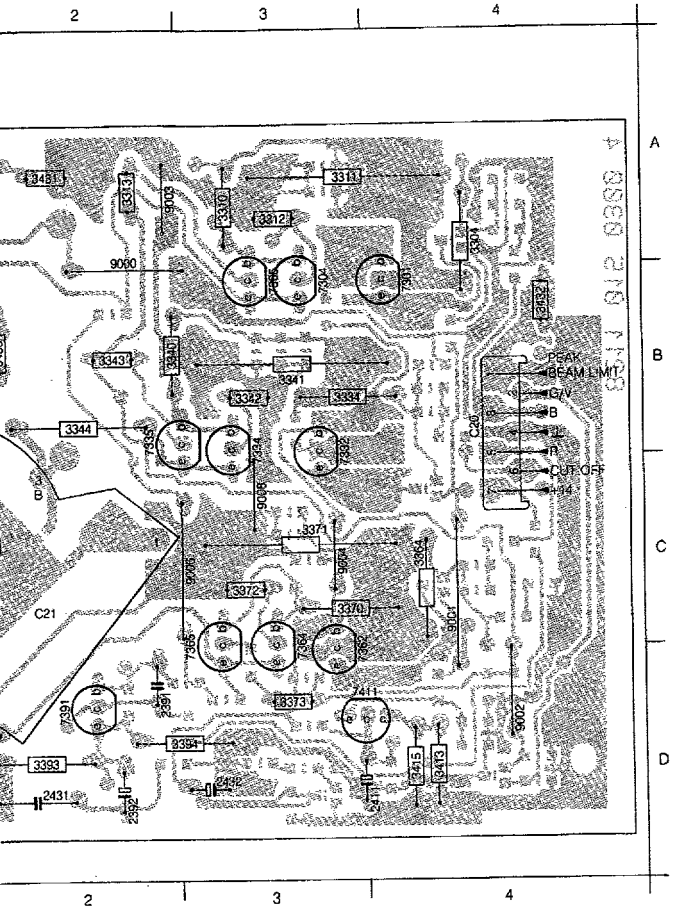

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C20	B4	3423	D3
C21	C2	3431	A2
C22	C1	3432	B4
2301	A4	3433	B2
2331	B4	3434	B1
2361	C4	3435	D1
2391	D2	3436	D1
2392	D2	4000	C4
2411	D4	4002	D4
2412	D4	4005	D3
2421	D4	4006	C4
2431	D2	4009	B3
2432	D3	4010	B3
2433	D1	4011	B4
2434	A1	4012	D2
3301	B4	4014	D3
3302	A4	5401	B1
3303	A4	6301	B2
3304	A4	6331	C2
3310	A3	6345	D3
3311	A3	6361	D3
3312	A3	6421	D4
3313	A2	7301	B4
3314	B1	7303	A4
3315	A3	7304	B3
3316	A3	7305	B3
3331	B4	7332	C3
3332	B4	7333	C4
3333	B4	7334	C3
3334	B3	7335	B2
3340	B3	7345	D3
3341	B3	7362	D3
3342	B3	7363	C4
3343	B2	7364	D3
3344	B2	7365	D3
3345	D3	7391	D2
3361	C4	7411	D3
3362	C4	7421	D4
3363	C4	9000	B2
3364	C4	9001	C4
3370	C3	9002	D4
3371	C3	9003	A2
3372	C3	9004	C3
3373	D3	9006	C3
3374	D1	9007	A2
3375	C3	9008	C3
3376	C3		
3377	C3		
3391	D2		
3392	D2		
3393	D2		
3394	D2		
3395	D3		
3396	B3		
3397	B3		
3398	B3		
3411	D3		
3412	D4		
3413	D4		
3414	D4		
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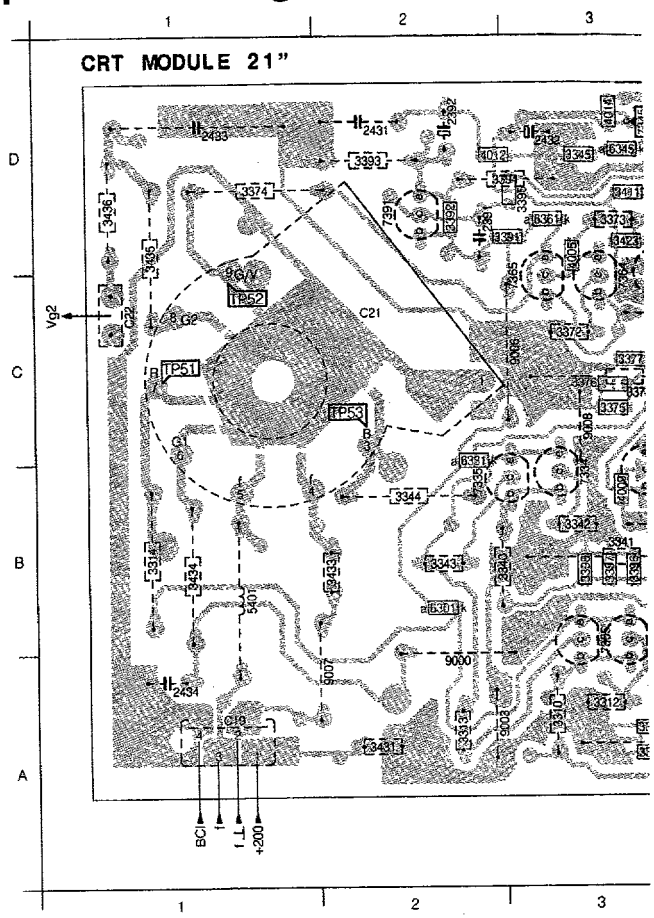
3421	D4		



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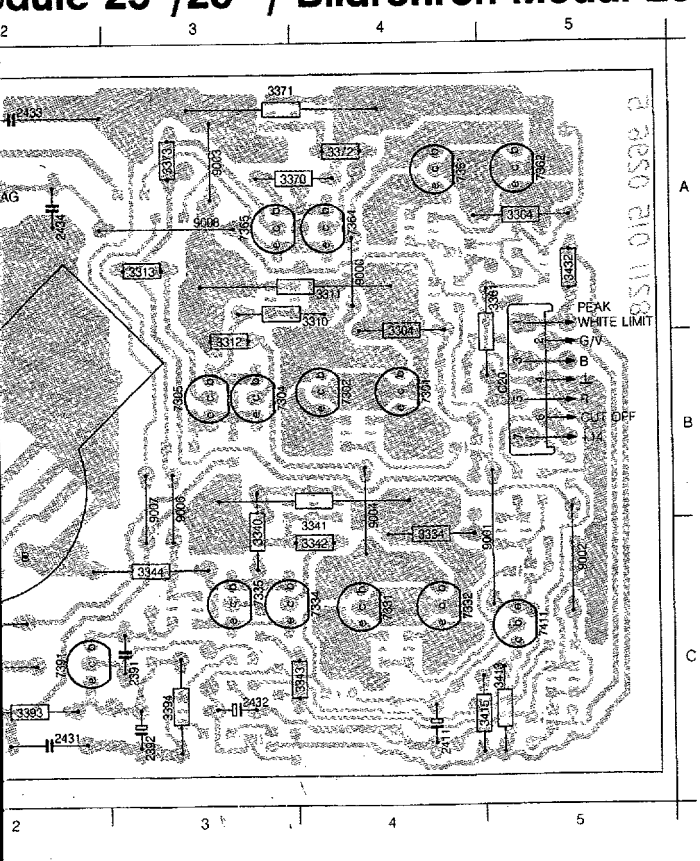

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2361	A5	3415	C5
2391	C3	3421	C5
2392	C3	3422	C5
2411	C4	3423	C3
2412	C5	3431	C1
2421	C5	3432	A5
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2432	C3	3434	A2
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3309	B4	4008	A3
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3311	A4	4011	A4
3312	B3	5401	C2
3313	A3	6301	B3
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3315	B3	6345	C3
3316	B4	6361	A3
3331	B5	6411	C4
3332	C5	6421	C5
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3371	A3	7411	C5
3372	A4	7421	C5
3373	A3	8000	A2
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3391	C3	9004	C4
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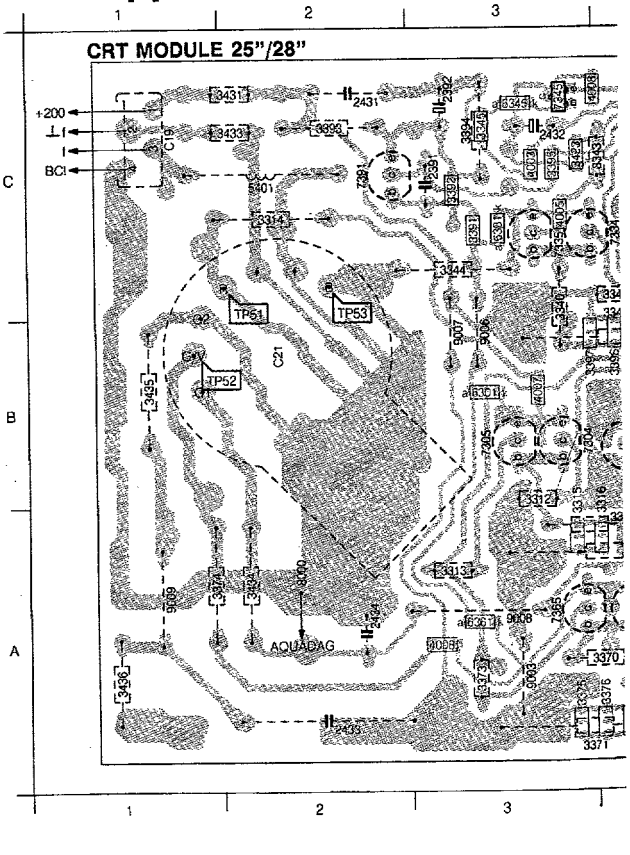

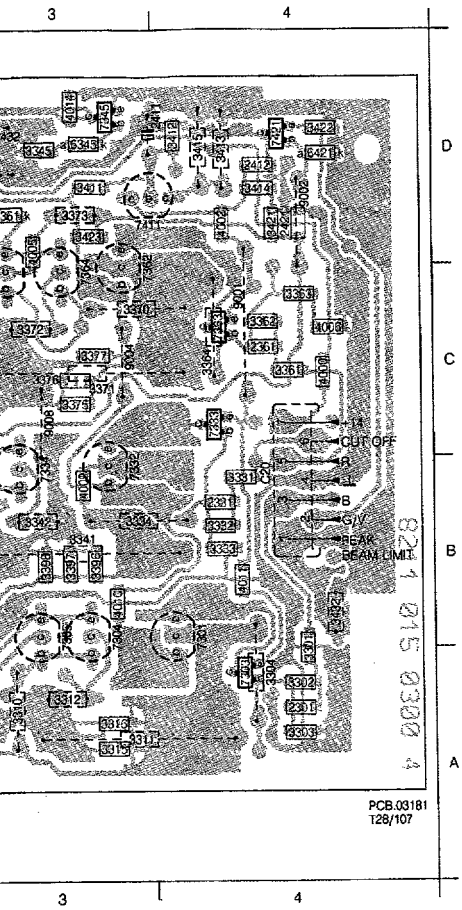

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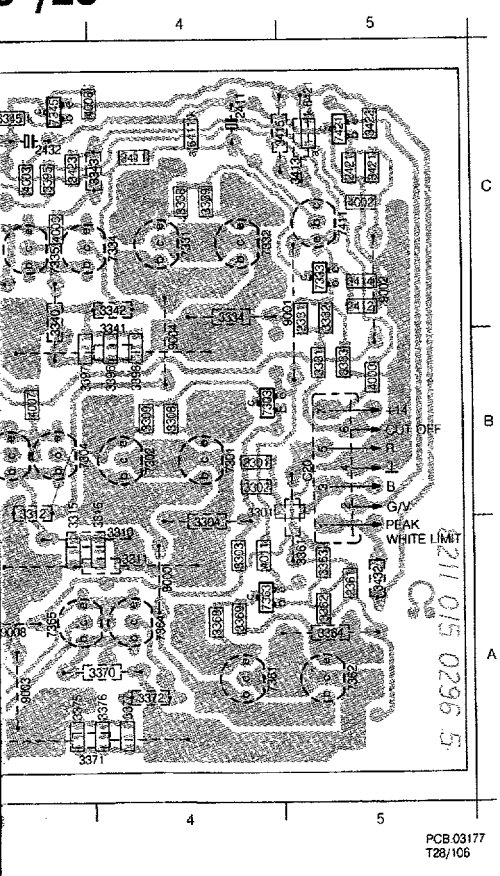
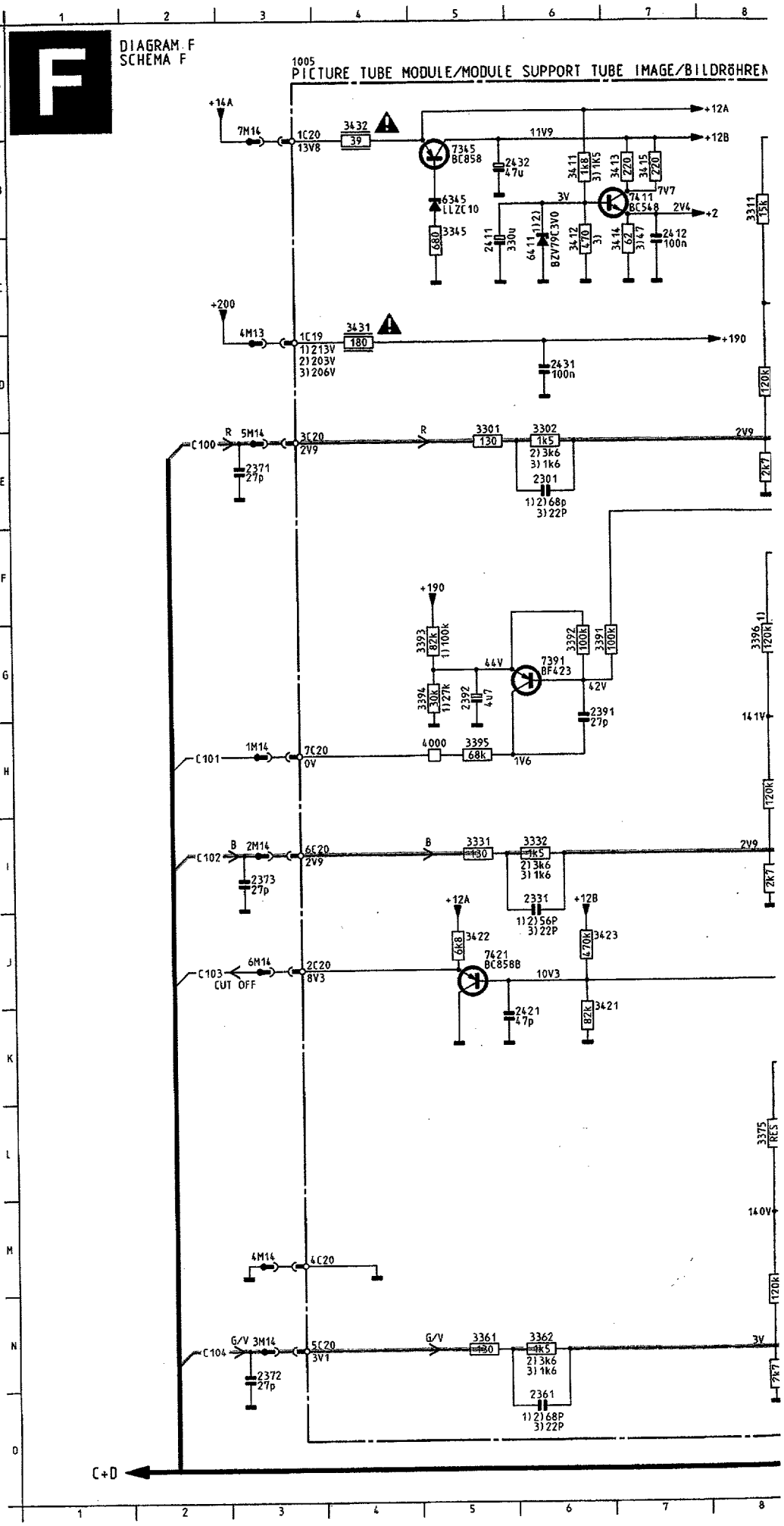


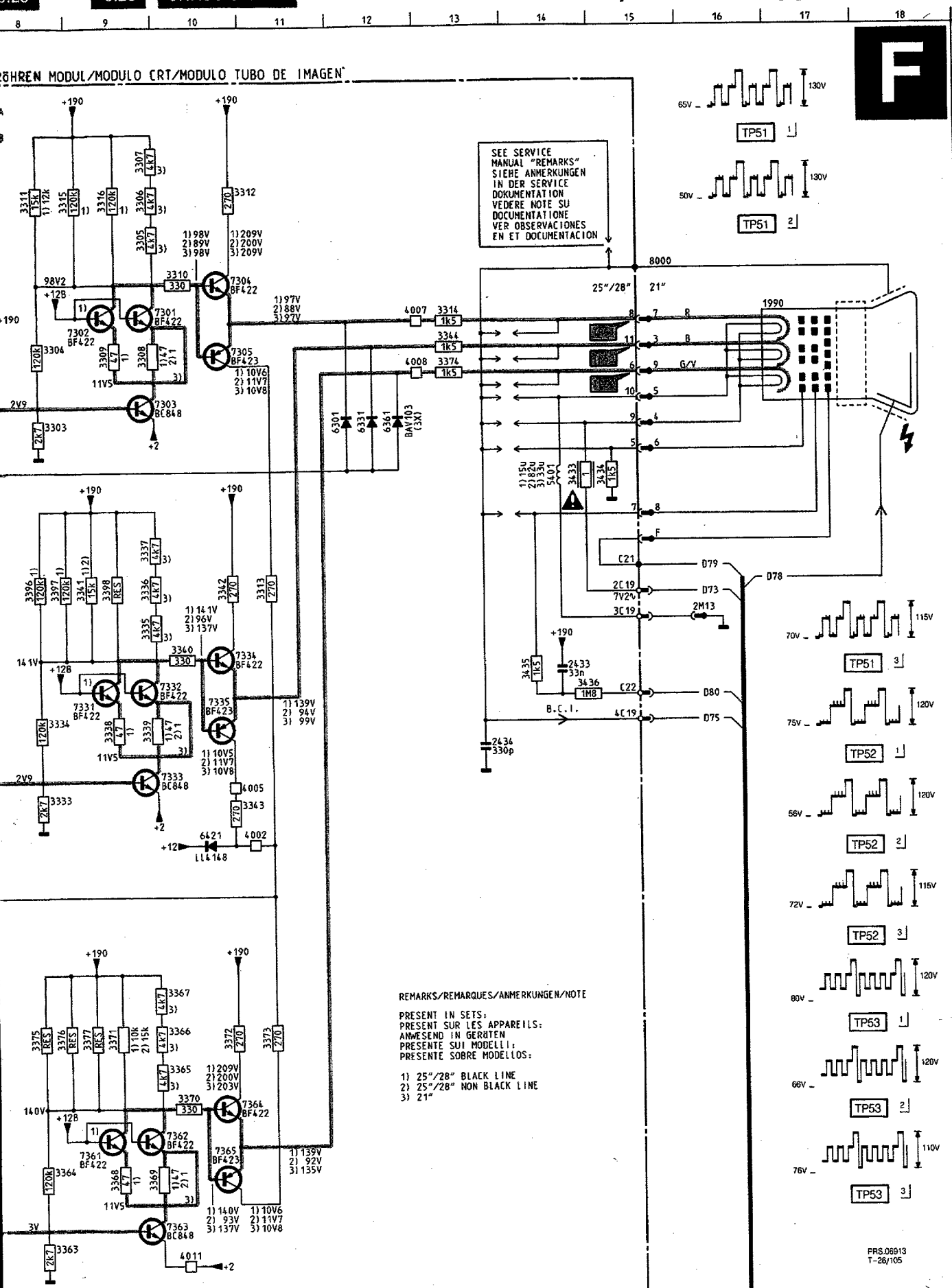
F

DIAGRAM F
SCHEMA F

1005
PICTURE TUBE MODULE/MODULE SUPPORT TUBE IMAGE/BILDRÖHRE



Bildröhren Modul / Module support tube image



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3313 G11
3314 D13
3315 B 9
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3332 I 6
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3336 G 9
3337 F 9
3338 H 9
3339 H 9
3340 G10
3341 G 9
3342 G10
3343 I11
3344 D13
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3361 N 5
3362 N 6
3363 N 8
3364 M 8
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3366 L10
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3372 L10
3373 L11
3374 D13
3375 L 8
3376 L 8
3377 L 9
3391 G 7
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3393 G 5
3394 G 5
3395 H 5
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4008 D13
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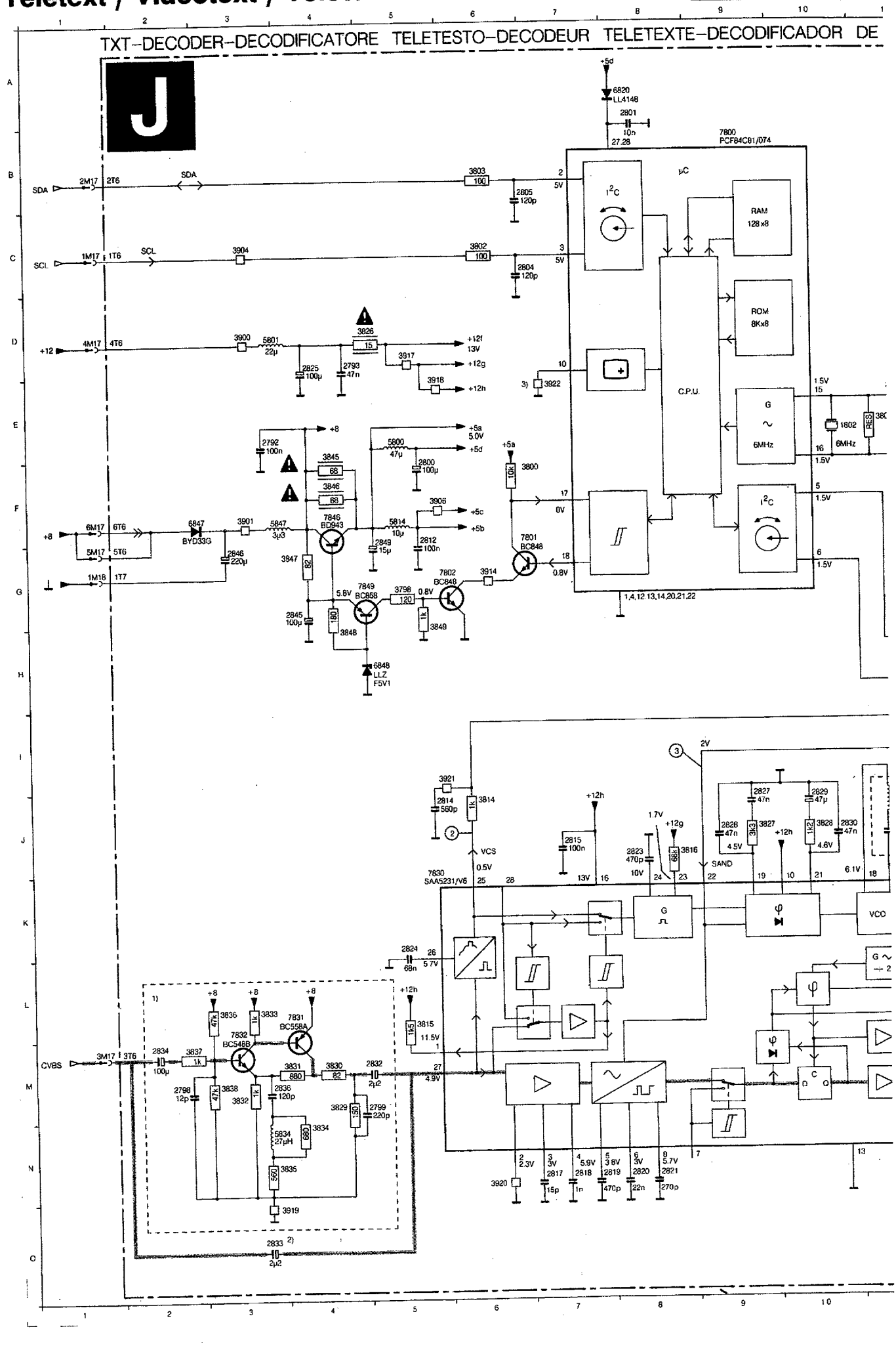
Teletext / Videotext / Teletexte



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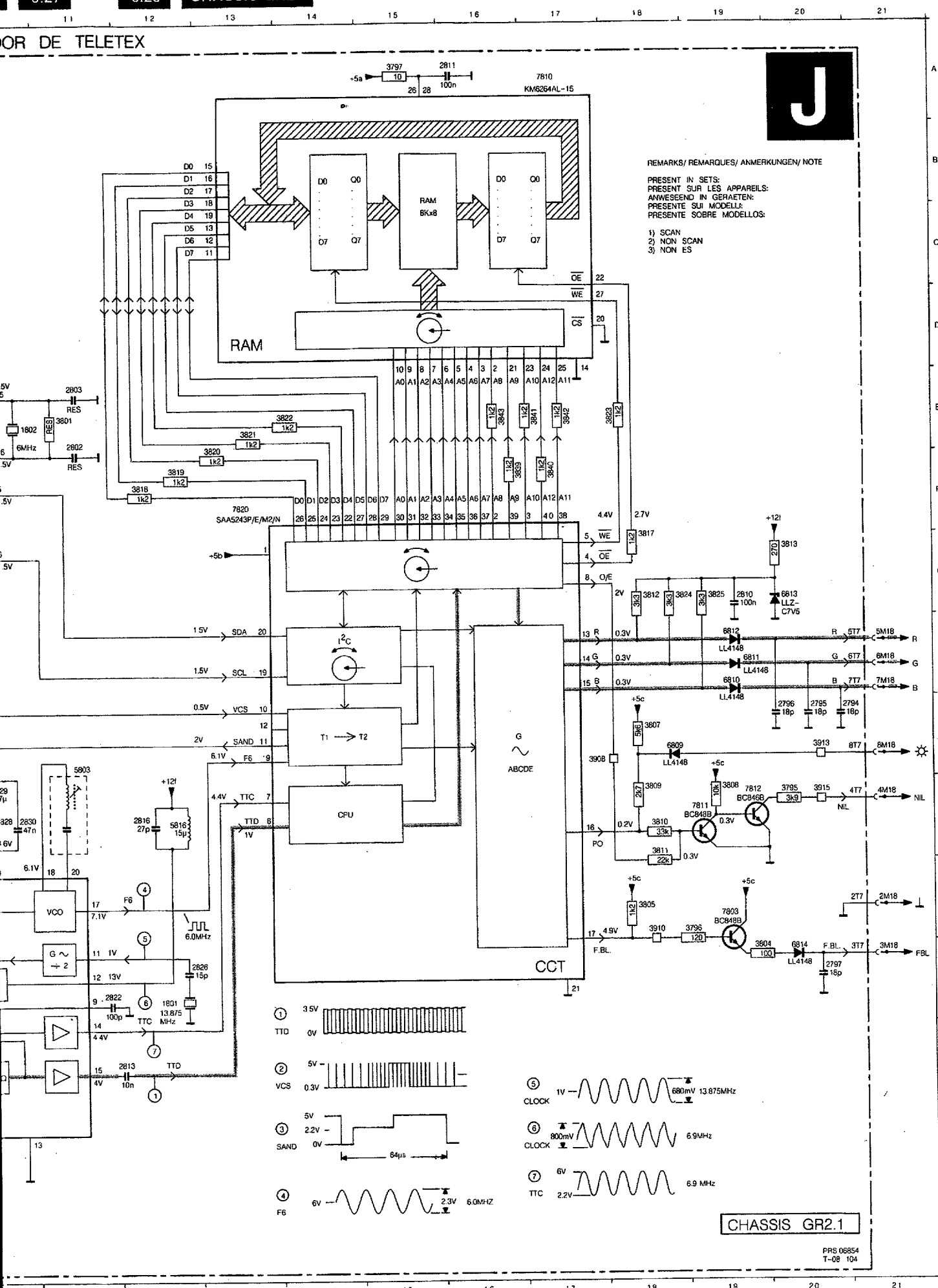
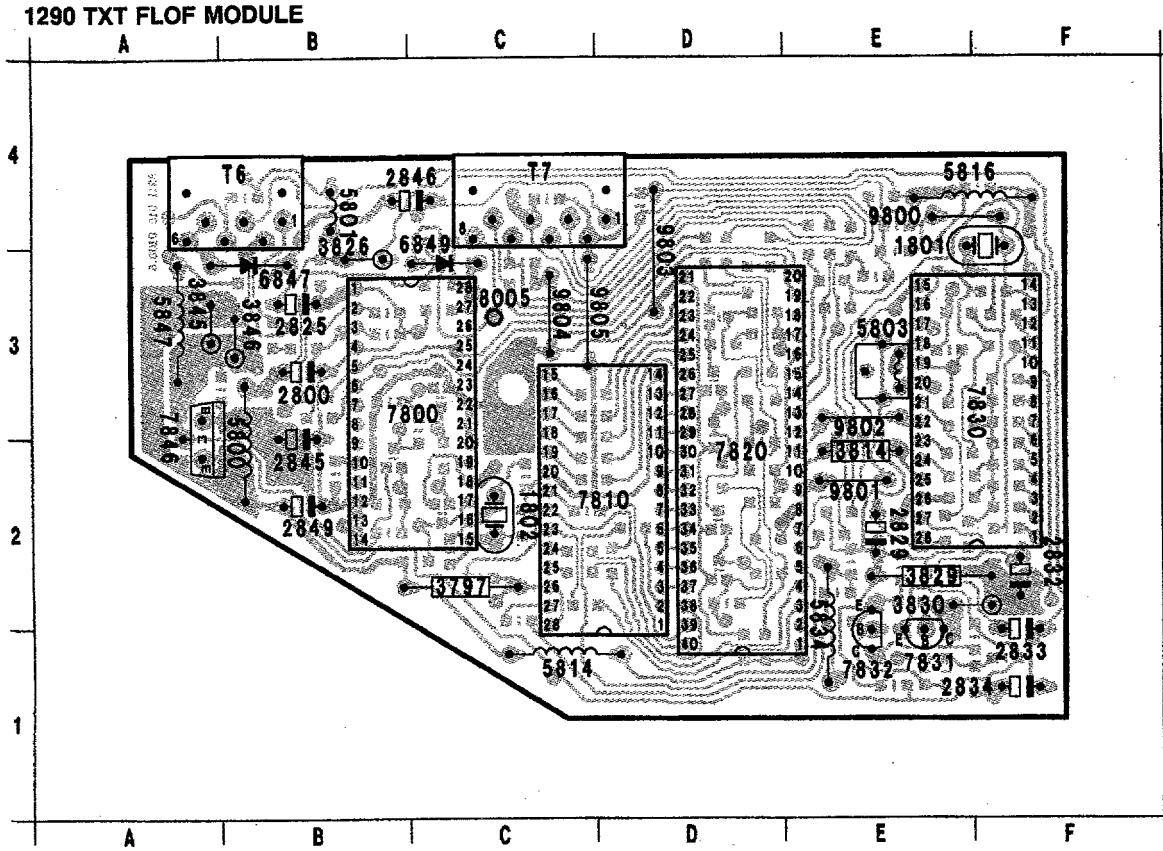
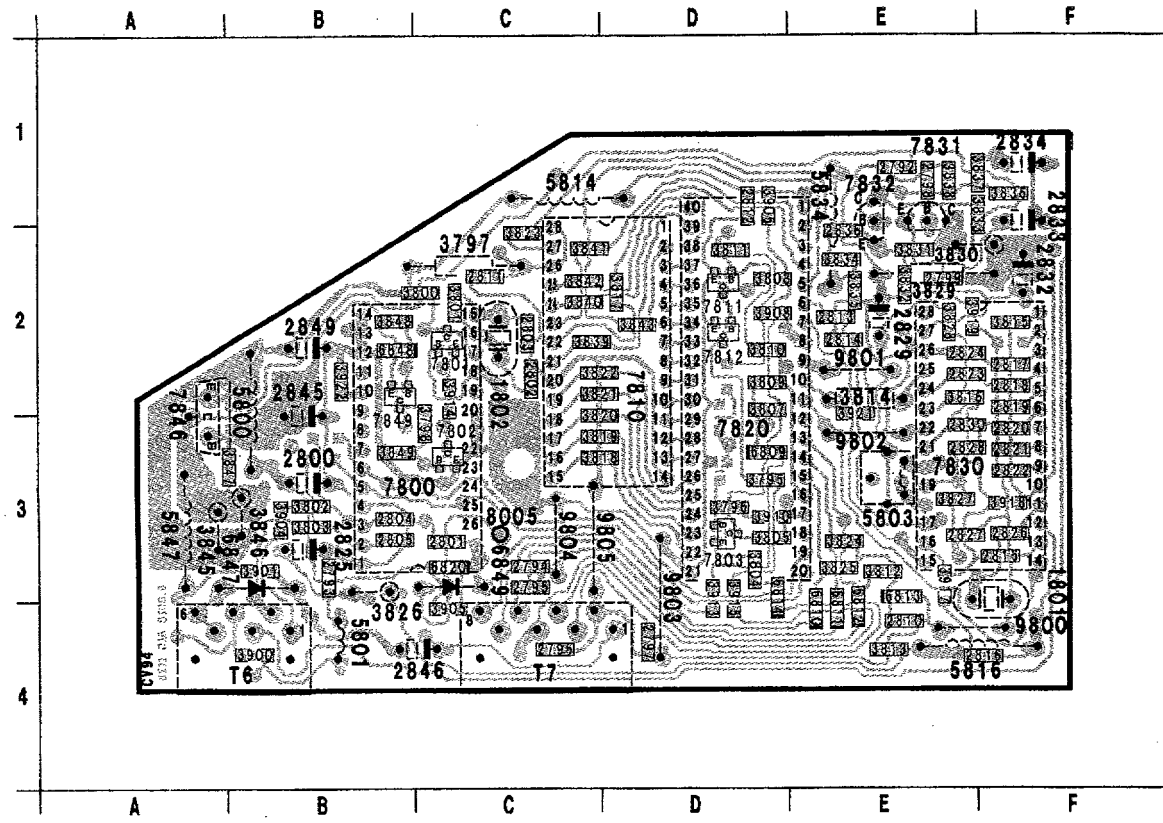


1290 TXT FLOF MODULE





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2813 M12
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2815 J7
2816 J12
2817 N7
2818 N7
2819 N7
2820 N8
2821 N8
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2823 J8
2824 K5
2825 D4
2826 L12
2827 J9
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2829 J10
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2836 M3
2845 G4
2846 G3
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3798 G5
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3825 G19
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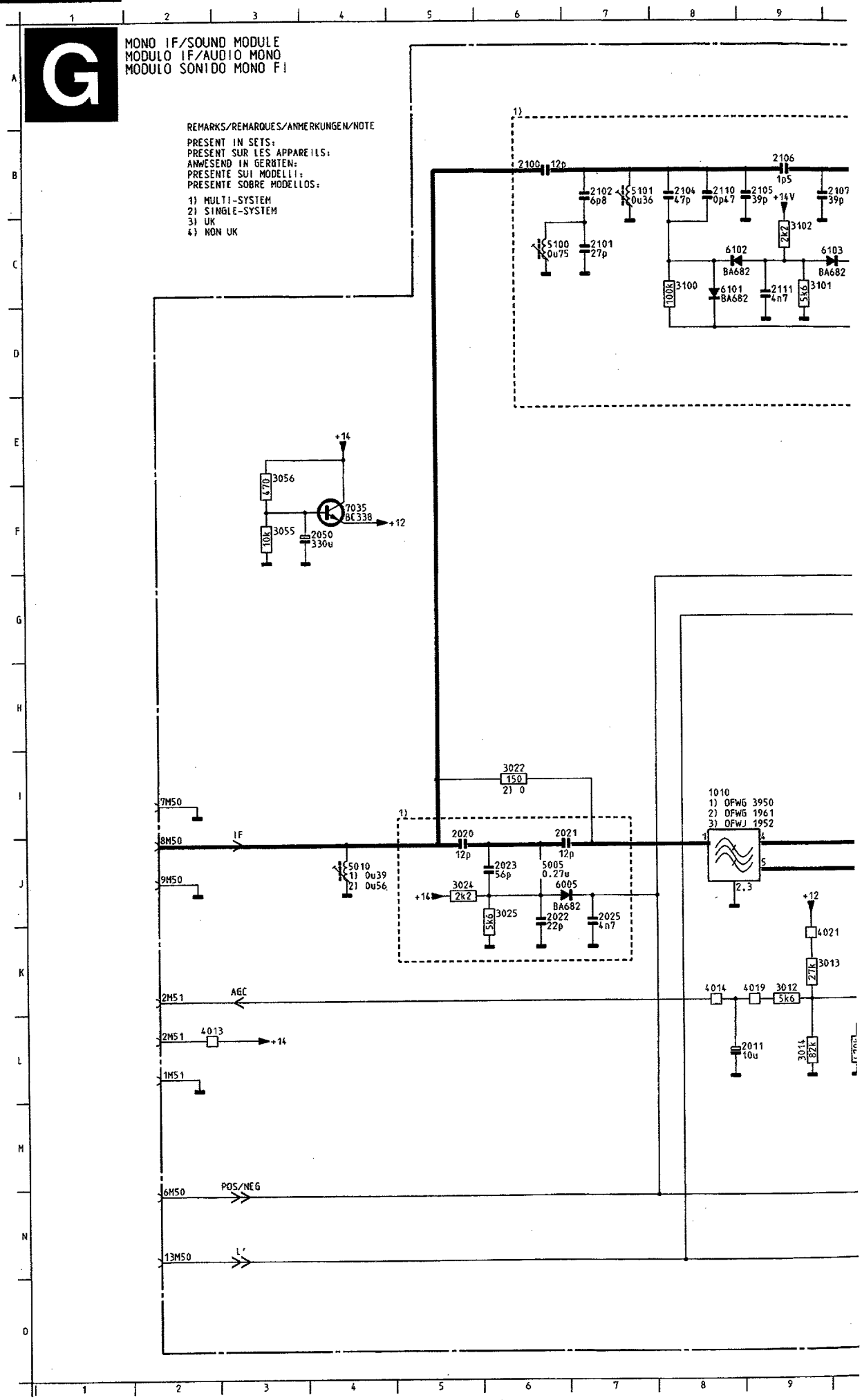
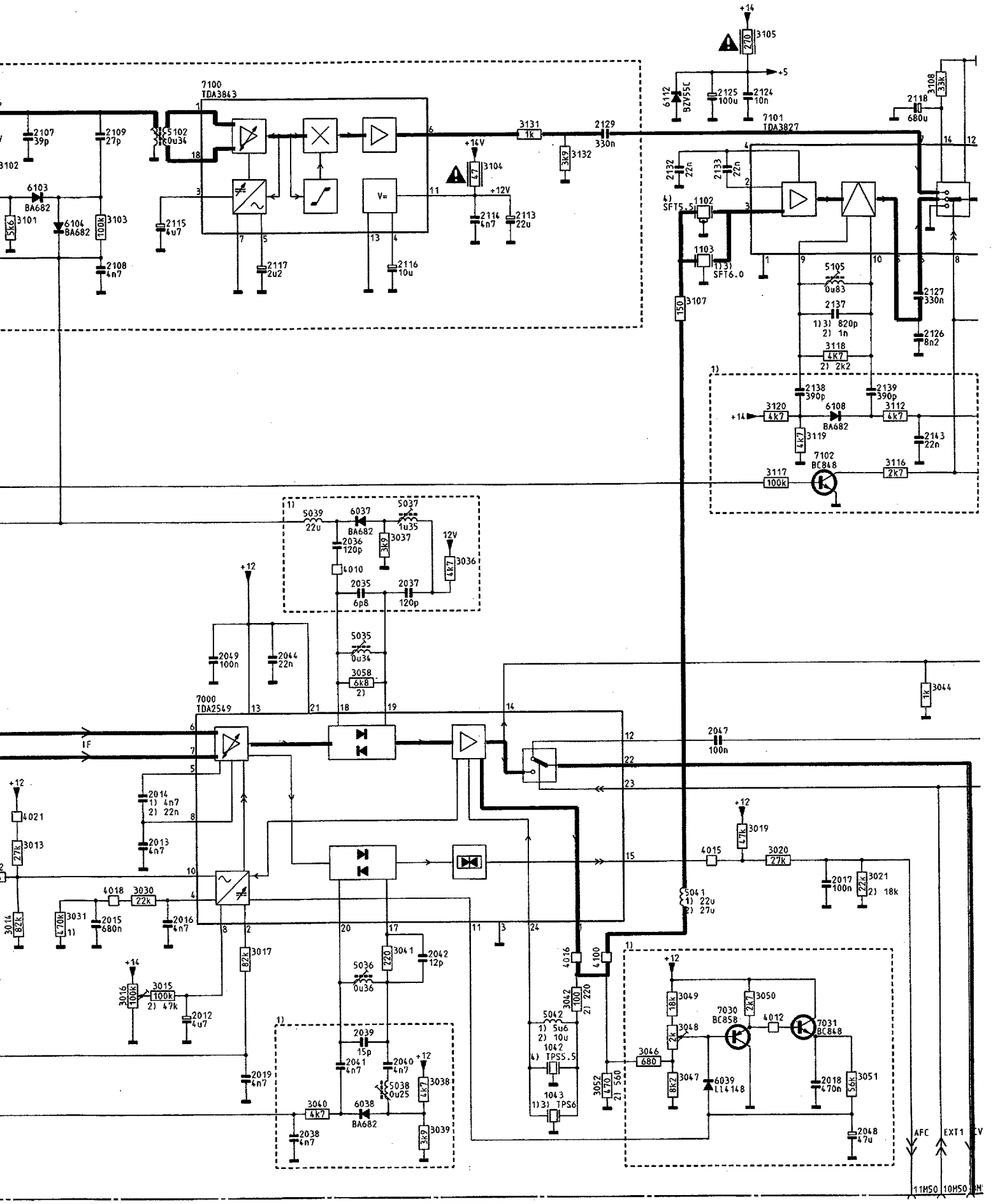
Mono IF/sound

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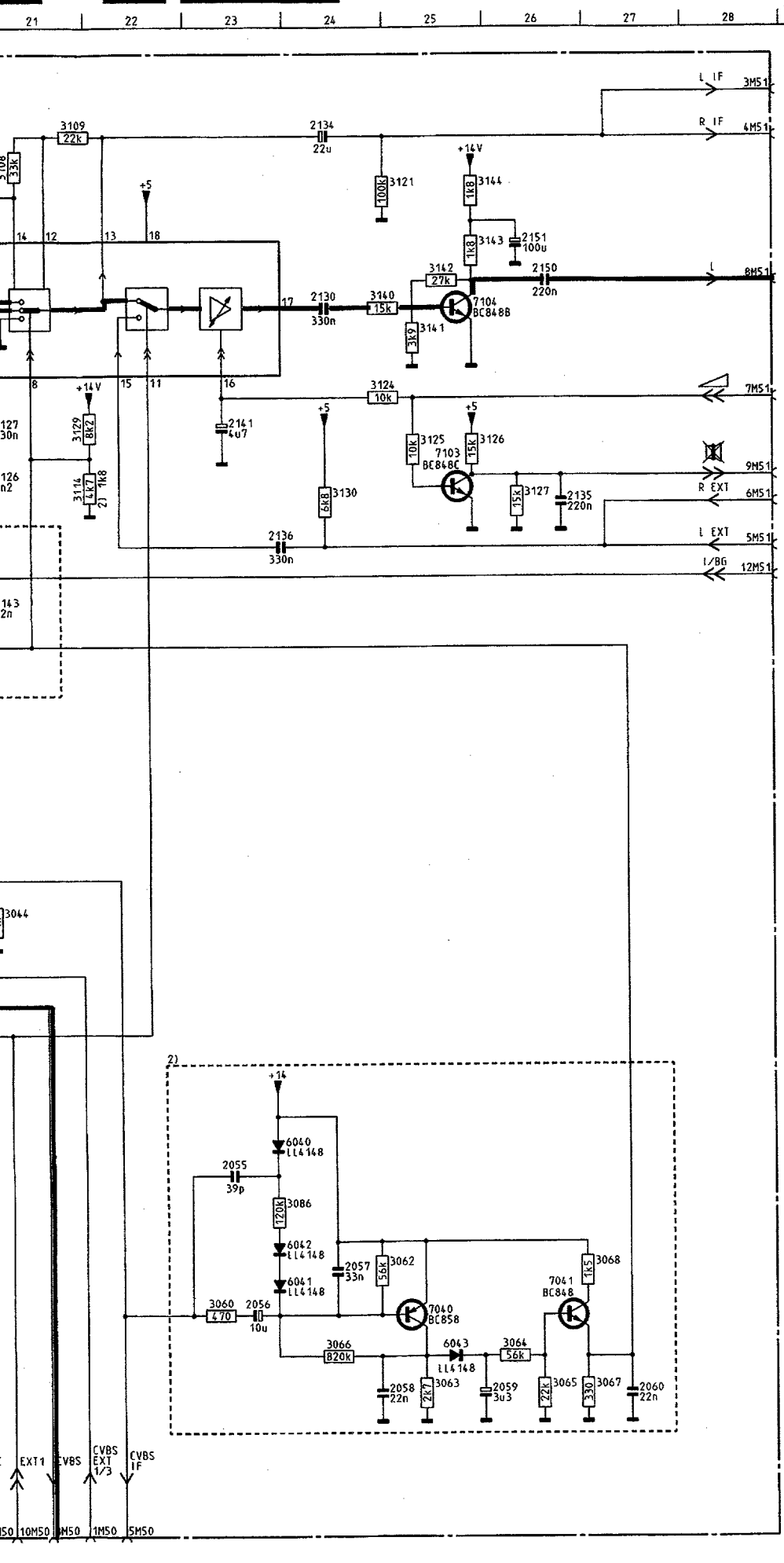

CHASSIS GR2.1

C10653200 2/016, MREF 040291

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1103	D18	3107	D18
2011	L 9	3108	B21
2012	M11	3109	A21
2013	K11	3112	F20
2014	J11	3114	E22
2015	L10	3116	F20
2016	L11	3117	G19
2017	L19	3118	E20
2018	N19	3119	F19
2019	N12	3120	F19
2020	J 5	3121	B25
2021	J 7	3124	D25
2022	K 6	3125	D25
2023	J 6	3126	D26
2025	K 7	3127	E26
2035	H14	3129	D22
2036	G13	3130	E24
2037	H14	3131	B16
2038	O13	3132	C16
2039	M14	3140	C25
2040	N14	3141	C25
2041	N13	3142	C25
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2044	I13	3144	B26
2047	J18	4010	H13
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2049	I12	4014	K 8
2050	F 6	4015	K18
2055	L23	4016	L16
2056	M23	4018	L11
2057	M24	4019	K 9
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2059	N26	4100	L17
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2101	C 7	5035	I14
2102	B 7	5036	M14
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2110	B 8	5101	B 7
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3017	L12		
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3021	K20		
3022	I 6		
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3025	J 6		
3030	L11		
3031	L10		
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3066	N24		
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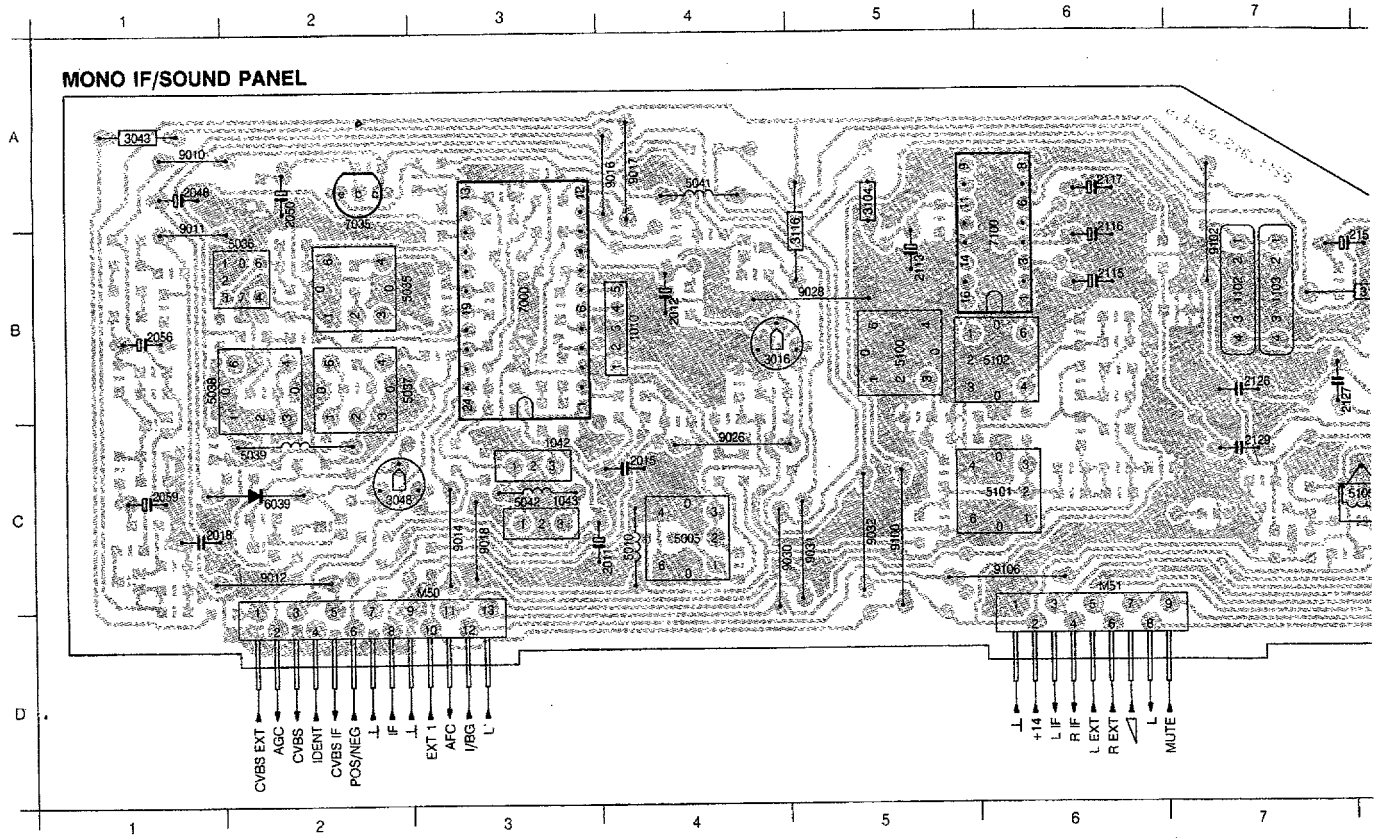
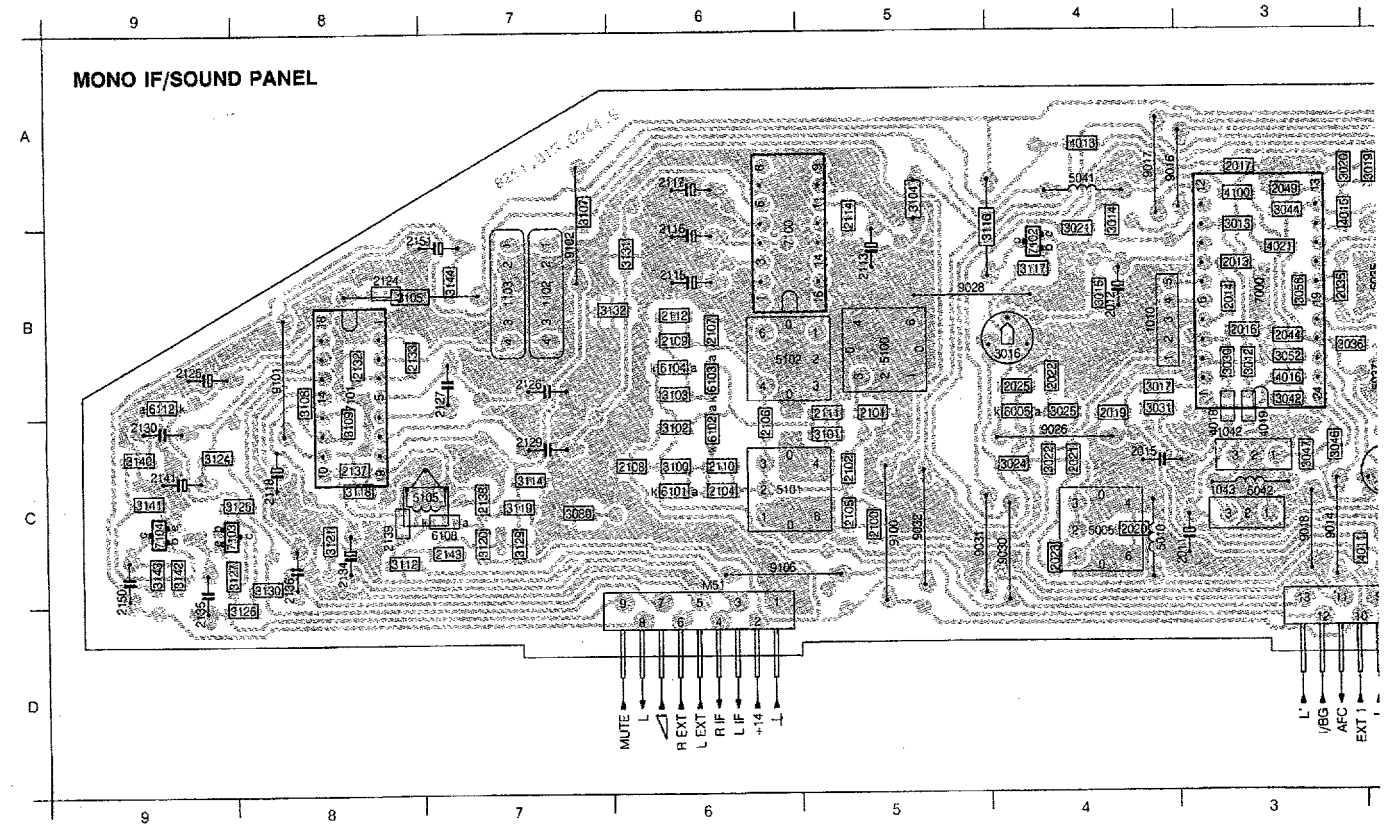
Mono IF/sound module / Mono ZF/Tonmodul /





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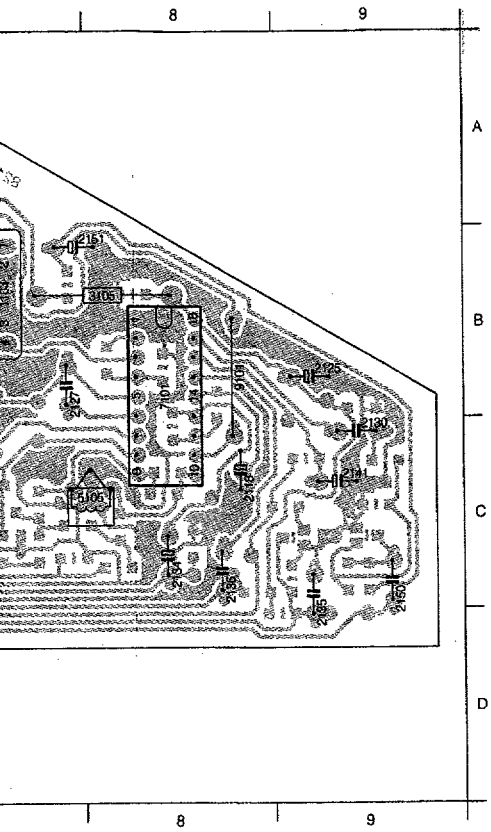

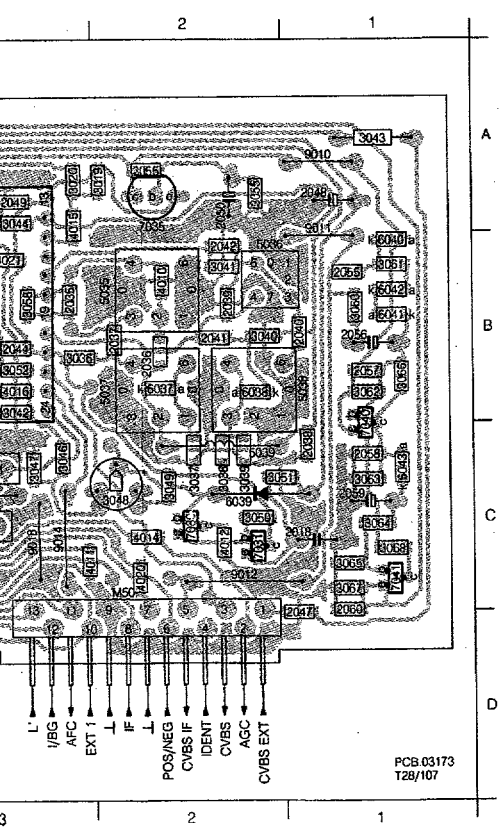

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1102	B7	3117	B4
1103	B7	3118	C8
2011	C4	3119	C7
2012	B4	3120	C7
2013	B3	3121	C8
2014	B3	3124	C9
2015	C4	3125	C8
2016	B3	3126	D8
2017	A3	3127	C9
2018	C1	3129	C7
2019	C4	3130	C8
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2021	C4	3132	B6
2022	B4	3140	C9
2023	C4	3141	C9
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2035	B3	3143	C9
2036	B2	3144	B7
2037	B2	4010	B2
2038	C1	4011	C3
2039	B2	4012	C2
2040	B2	4013	A4
2041	B2	4014	C2
2042	B2	4015	B3
2044	B3	4016	B3
2047	D1	4018	C3
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2050	A2	4021	B3
2055	B1	4100	A3
2056	B1	5005	C4
2057	B1	5010	C4
2058	C1	5035	B3
2059	C1	5036	B2
2060	D1	5037	B3
2100	C5	5038	B1
2101	C5	5039	C2
2102	C5	5041	A4
2104	C8	5042	C3
2105	C5	5100	B5
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2108	C8	5105	C7
2109	B6	6005	C4
2110	C6	6037	B2
2111	C5	6038	B2
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2114	B5	6041	B1
2115	B6	6042	B1
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2117	A6	6101	C6
2118	C8	6102	C6
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2125	B9	6104	B6
2126	B7	6108	C7
2127	B7	6112	B9
2129	C7	7000	B3
2130	C9	7030	C2
2132	B8	7031	C2
2133	B8	7035	A2
2134	C8	7040	C1
2135	D9	7041	C1
2136	C8	7100	B6
2137	C8	7101	B8
2138	C7	7102	B4
2139	C8	7103	C9
2141	C9	7104	C9
2143	C7	9010	A1
2150	D9	9011	B1
2151	B7	9012	C2
3012	B3	9014	C3
3013	B3	9016	A4
3014	B4	9017	A4
3015	B4	9018	C3
3016	B4	9026	C4
3017	B4	9028	B5
3019	A3	9030	C5
3020	A3	9031	C5
3021	B4	9032	C5
3022	C4	9100	C5
3024	C4	9101	B8
3025	C4	9102	B7
3030	B3	9106	C6
3031	C4		
3036	B3		
3037	C2		
3038	C2		
3039	C2		
3040	B2		
3041	B2		
3042	B3		
3043	A1		
3044	A3		
3046	C3		
3047	C3		
3048	C2		
3049	C2		
3050	C2		
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3052	B3		
3055	A2		
3056	A2		
3058	B3		
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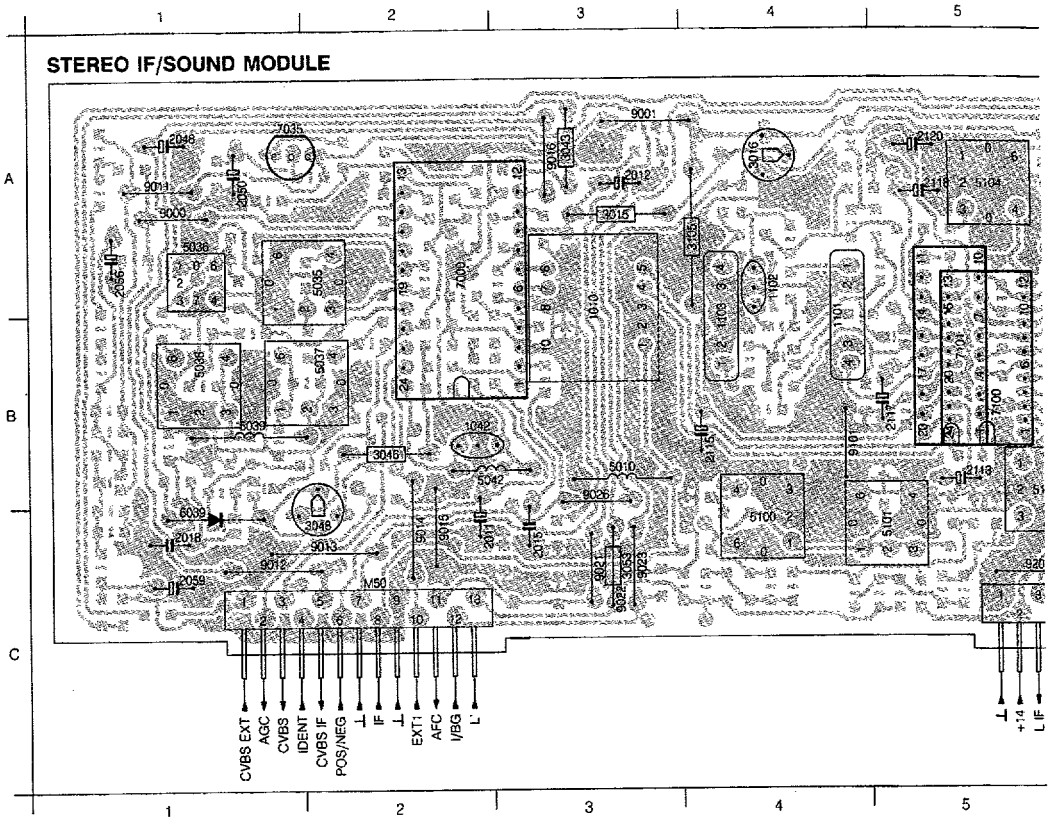
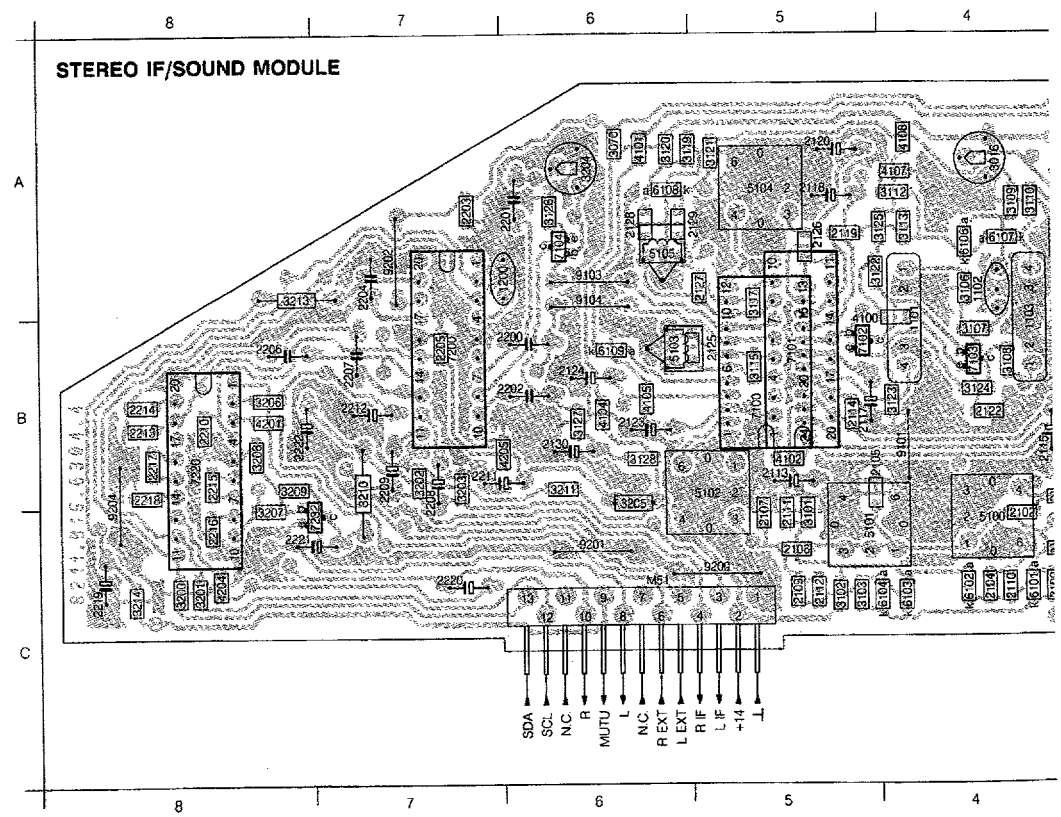
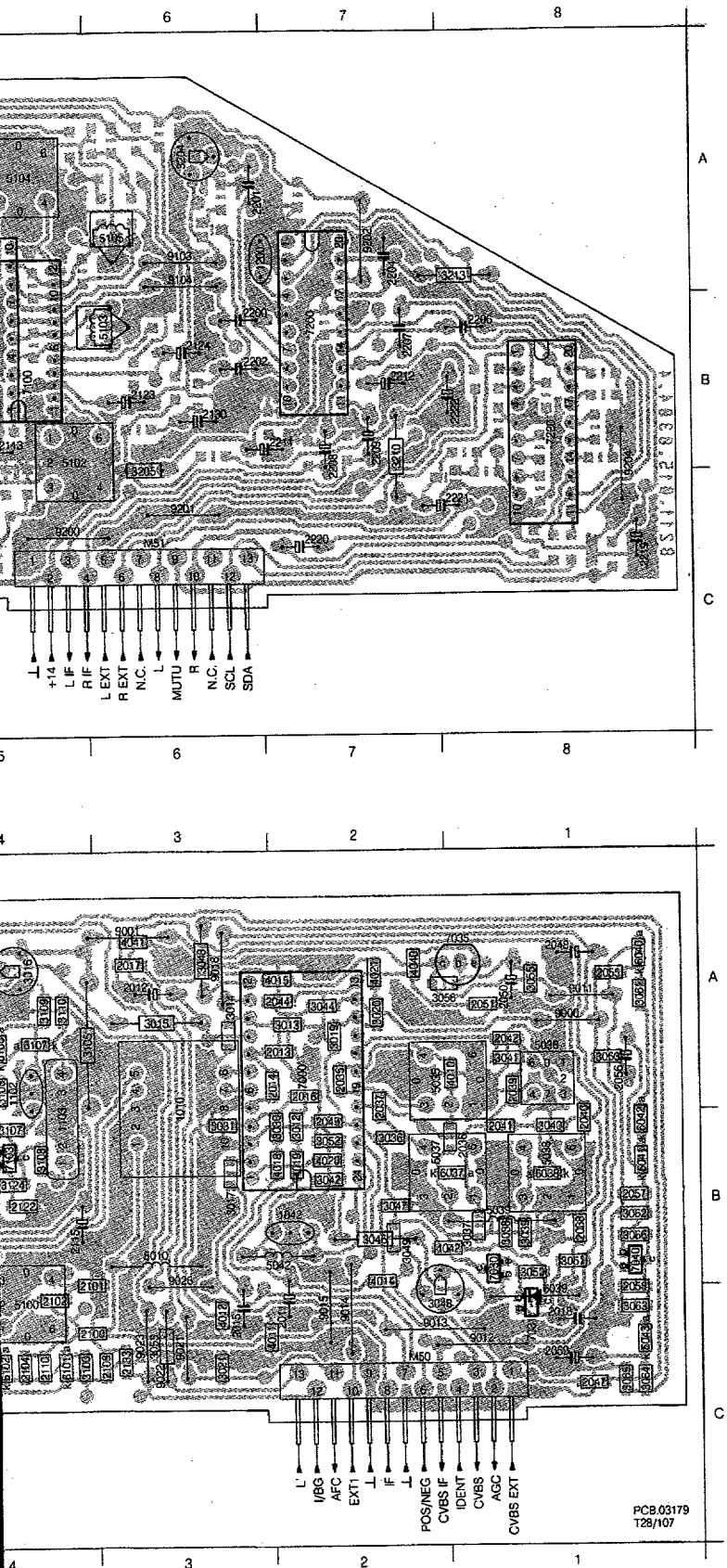
3063	C1		
3064	C1		
3065	C1		
3066	B1		
3067	C1		
3068	C1		
3080	C7		
3100	C6		
3101	C5		
3102	C6		
3103	B6		
3104	A5		
3105	B8		
3107	B7		

Stereo IF/sound module / Stereo ZF/Tonmodul /





Module FI/son stéréo



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M51	C6	3070	A6
1010	B3	3100	C4
1042	B2	3101	C5
1101	B4	3102	C5
1102	A4	3103	C5
1103	B4	3105	A4
1200	A7	3106	A4
2011	C2	3107	B4
2012	A3	3108	B4
2013	A2	3109	A4
2014	A3	3110	A4
2015	C3	3112	A4
2016	A2	3113	A4
2017	A3	3115	B5
2018	C1	3117	B5
2035	A2	3119	A6
2036	B1	3120	A6
2037	B2	3121	A5
2038	B1	3122	A5
2039	A1	3123	B4
2040	B1	3124	B4
2041	B1	3125	A5
2042	A1	3126	A6
2044	A2	3127	B6
2047	C1	3128	B6
2048	A1	3200	C8
2049	B2	3201	C8
2050	A1	3202	B7
2051	A1	3203	B7
2055	A1	3204	A6
2056	A1	3205	C6
2057	B1	3206	B8
2058	C1	3207	C8
2059	C1	3208	B8
2100	C3	3209	B8
2101	B3	3210	B7
2102	C4	3211	B6
2104	C4	3213	A8
2105	B5	3214	C8
2106	C5	4010	A2
2107	C5	4011	C3
2108	C4	4012	C3
2109	C5	4014	B2
2110	C4	4015	A2
2111	C5	4018	B3
2112	C5	4019	B2
2113	B5	4020	B2
2114	B5	4021	A2
2115	B4	4040	A2
2117	B5	4041	A3
2118	A5	4042	B1
2119	A5	4100	B5
2120	A5	4101	A6
2122	B4	4102	B5
2123	B6	4104	B6
2124	B6	4105	B6
2125	B5	4107	A4
2126	A5	4108	A4
2127	A6	4201	B8
2128	A6	4204	C8
2129	A6	4205	B7
2130	B6	5010	B3
2133	C3	5035	A2
2200	B6	5036	A1
2201	A7	5037	B2
2202	B6	5038	B1
2203	A7	5039	B1
2204	A7	5042	B2
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2206	B8	5101	C5
2207	B7	5102	B5
2208	C7	5103	B6
2209	B7	5104	A5
2210	B8	5105	A6
2211	B7	6037	B1
2212	B7	6038	B1
2213	B8	6039	C1
2214	B8	6040	A1
2215	B8	6041	B1
2216	C8	6042	B1
2217	B8	6043	C1
2218	B8	6101	C4
2219	C8	6102	C4
2220	C7	6103	C4
2221	C8	6104	C5
2222	B8	6106	A4
3012	B2	6107	A4
3013	A2	6108	A6
3014	A3	6109	B6
3015	A3	7000	A2
3016	A4	7030	B1
3017	B3	7031	C1
3019	A2	7035	A1
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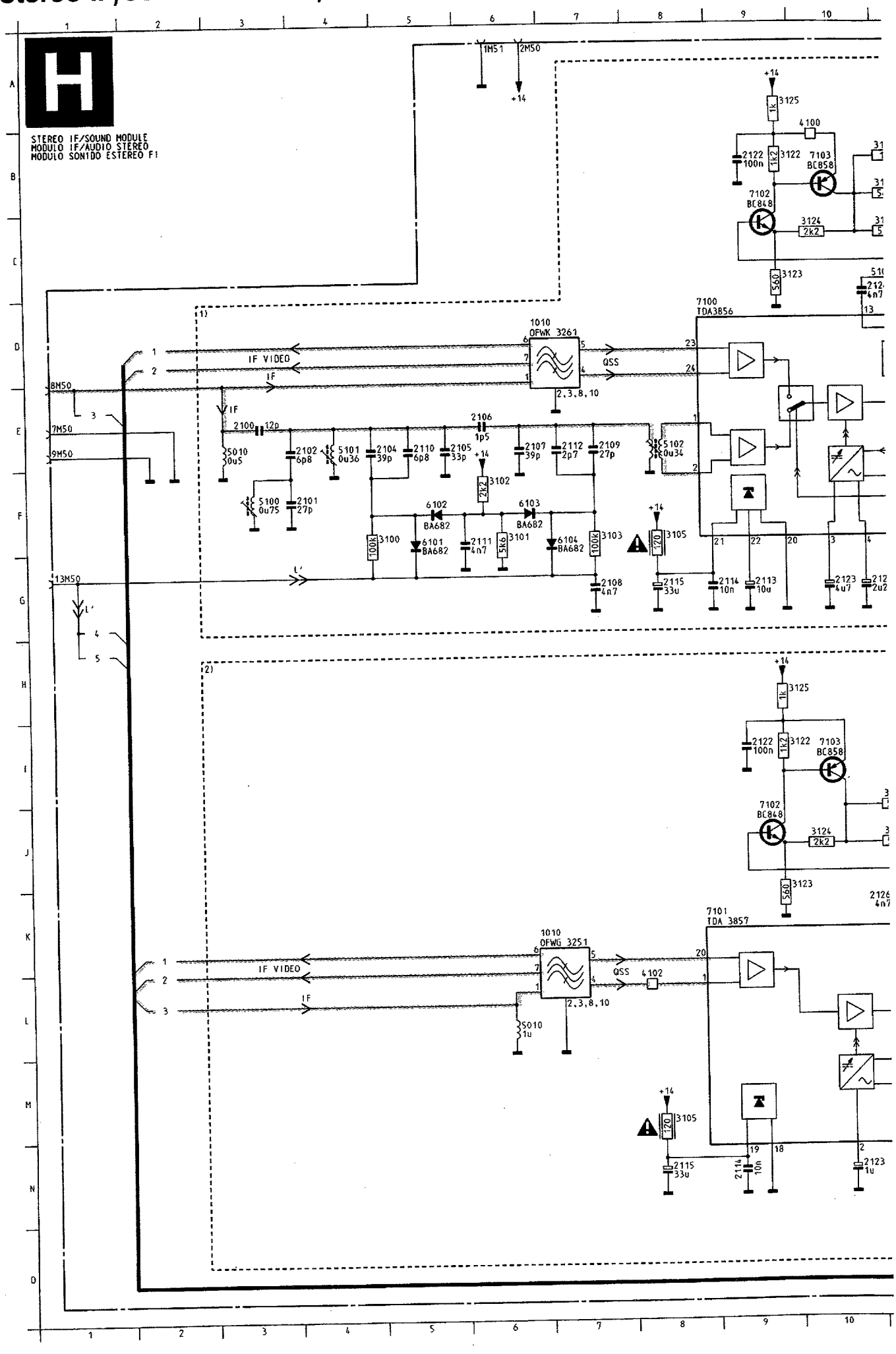
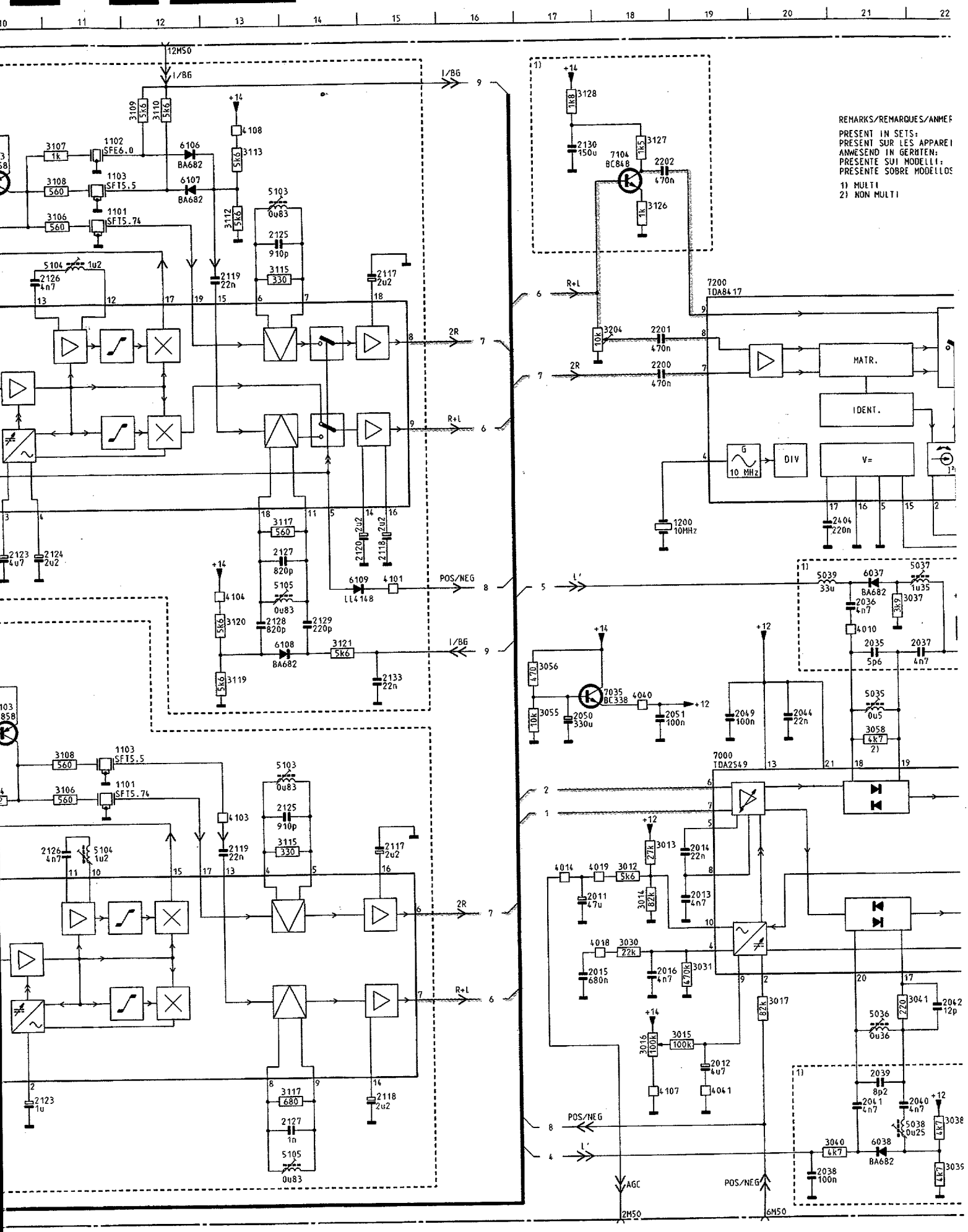
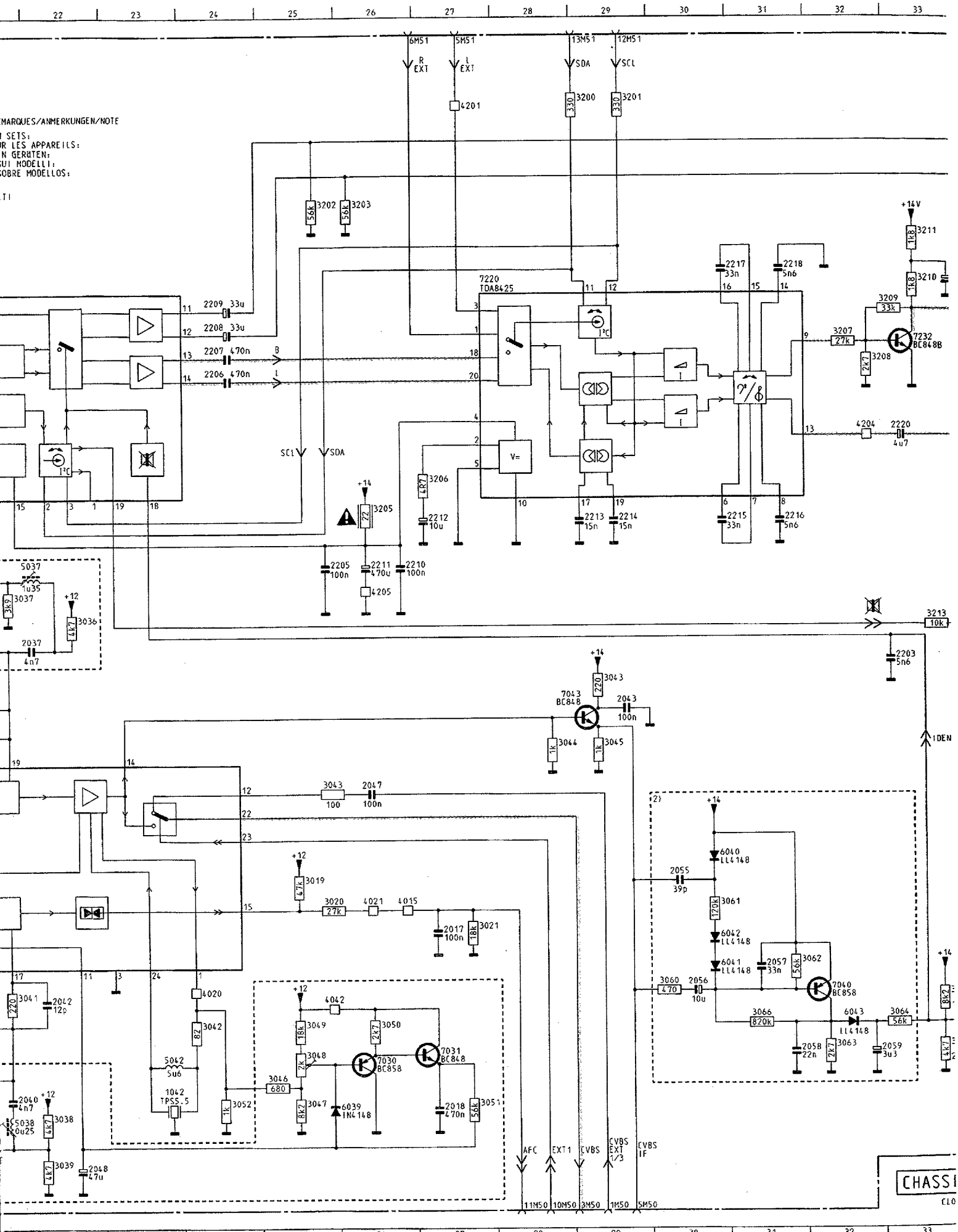
3037	B1	7104	A6
3038	B1	7200	B7
3039	B1	7220	B8
3040	B1	7232	C8
3041	A1	9000	A1
3042	B2	9001	A3
3043	A3	9011	A1
3044	A2	9012	C1
3046	B2	9013	C2
3047	B2	9014	C2
3048	C2	9015	C2
3049	B2	9016	A3
3050	B1	9021	C3
3051	B1	9022	C3
3052	B2	9023	C3
3053	C3	9026	B3
3055	A1	9101	B4
3056	A1	9103	A6
3060	A1	9104	A6
3061	A1	9200	C5
3062	B1	9201	C6
3063	C1	9202	A7
3064	C1	9204	C8
3065	C1		

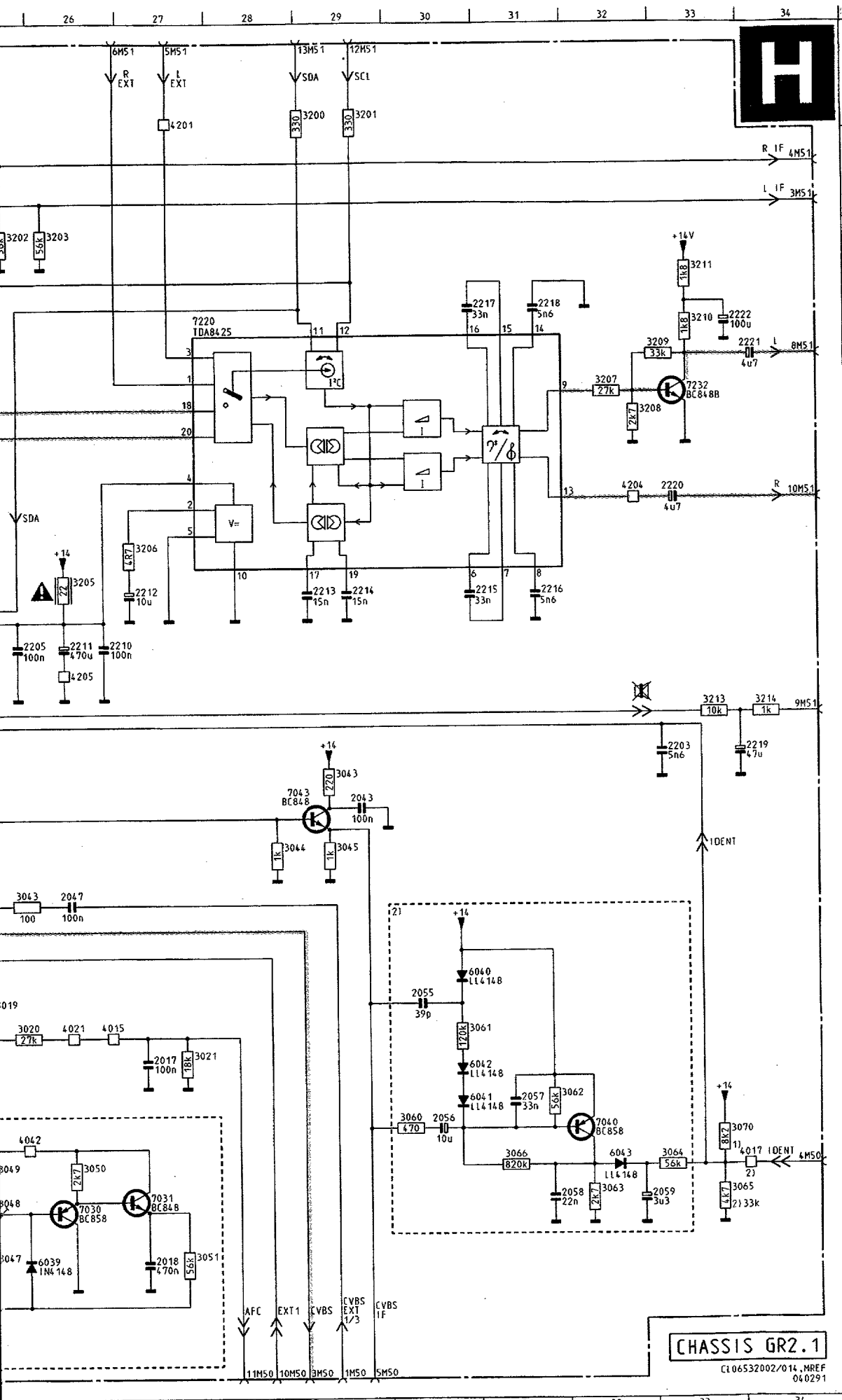
Stereo IF/sound module / Stereo ZF/Tonmodul /



Module FI/son stéréo




MARQUES/ANMERKUNGEN/NOTE
SETS:
R LES APPAREILS:
N GERÄTEN:
UI MODELLI:
OBRE MODELLOS:
6MS1
5MS1
13MS1
12MS1
R EXT
L EXT
SDA
SCL
4201
3200
3201
3202
3203
7220
TDA8425
2209 33u
2208 33u
2207 470n
2206 470n
SCL
SDA
3205
3206
2212 10u
2205 100n
2211 470u
2210 100n
4205
2217 33n
2218 5n6
2213 15n
2214 15n
2215 33n
2216 5n6
+14V
3211
3210
3209 33k
3207 27k
7232 BC848B
3208
4204
2220 4u7
5037 1u35
3037
3036
2037 4n7
3213 10k
2203 5n6
7043 BC848
3043 220
2043 100n
3044 1k
3045 1k
IDEN
3043 100
2047 100n
3019 47k
3020 27k
4021
4015
2017 100n
3021 18k
3041 220
2042 12p
4020
3042 82
5042 5u6
1042 TPS5.5
3052 1k
4042
3049 18k
3050 2k7
3048 2k
7030 BC858
7031 BC848
3046 680
3047 8k2
6039 IN4148
2018 470n
3051 56k
2040 4n7
5038 0u25
3038 4k7
3039 4k7
2048 47u
6040 LL4148
2055 39p
3061 120k
6042 LL4148
6041 LL4148
2057 33n
3062 56k
7040 BC858
3060 470
2056 10u
3066 820k
6043 LL4148
3064 56k
2058 22n
3063 2k7
2059 3u3
4k7
AFC
EXT1
CVBS
CVBS EXT 1/3
CVBS IF
11MS0
10MS0
9MS0
1MS0
5MS0



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	1101	C11	3044	I28	6106	B12
A	1101	J11	3045	I29	6107	B12
	1102	B11	3046	N25	6108	H14
	1103	B11	3047	N25	6109	G14
	1103	I11	3048	M25	7000	J19
	1200	G19	3049	M25	7030	N26
	2011	K17	3050	M26	7031	N27
	2012	N19	3051	N27	7035	I18
	2013	K19	3052	N24	7040	M32
B	2014	K19	3055	I17	7043	I29
	2015	L17	3056	H17	7100	D 8
	2016	L18	3058	I21	7101	K 8
	2017	L27	3060	M30	7102	B 9
	2018	N27	3061	L30	7102	J 9
	2035	H21	3062	L31	7103	B10
	2036	H21	3063	M32	7103	I10
	2037	H22	3064	M33	7104	B18
C	2038	D20	3065	M33	7200	D19
	2039	N21	3066	M31	7220	D27
	2040	N21	3070	M33	7232	D33
	2041	N21	3100	F 5		
	2042	M22	3101	F 6		
	2043	I29	3102	F 6		
	2044	I20	3103	F 7		
	2047	J26	3105	F 8		
D	2048	O22	3105	M 8		
	2049	I19	3106	C11		
	2050	I17	3106	J11		
	2051	I18	3107	B11		
	2055	K30	3108	B11		
	2056	M30	3108	J11		
	2057	L31	3109	A12		
E	2058	M31	3110	A12		
	2059	M32	3112	C13		
	2100	E 3	3113	B13		
	2101	F 4	3115	C14		
	2102	E 4	3115	K14		
	2104	E 5	3117	G14		
	2105	E 5	3117	N14		
	2106	E 6	3119	I13		
F	2107	E 6	3120	H13		
	2108	G 7	3121	H14		
	2109	E 7	3122	B 9		
	2110	E 5	3122	I 9		
	2111	F 6	3123	C 9		
	2112	E 7	3123	K 9		
	2113	G 9	3124	C10		
G	2114	G 9	3124	J10		
	2114	N 9	3125	A 9		
	2115	G 8	3125	H 9		
	2115	N 8	3126	C18		
	2117	D15	3127	B18		
	2117	K15	3128	A17		
	2118	G15	3200	A29		
H	2118	N15	3201	A29		
	2119	D13	3202	C25		
	2119	K13	3203	C26		
	2120	G15	3204	D18		
	2122	B 9	3205	F26		
	2122	I 9	3206	F27		
	2123	G10	3207	D32		
	2123	N10	3208	E32		
I	2124	G10	3209	D33		
	2125	C14	3210	D33		
	2125	J14	3211	C33		
	2126	D10	3213	H33		
	2126	K11	3214	H34		
	2127	G14	4010	H21		
	2127	N14	4014	K17		
J	2128	H13	4015	L26		
	2129	H14	4017	M34		
	2130	B17	4018	L18		
	2133	I15	4019	K18		
	2200	E18	4020	M24		
	2201	D18	4021	L26		
	2202	B18	4040	I18		
	2203	H33	4041	N19		
K	2205	G25	4042	M25		
	2206	E24	4100	B10		
	2207	E24	4101	G15		
	2208	D24	4102	L 8		
	2209	D24	4103	J13		
	2210	G26	4104	H13		
	2211	G26	4107	N18		
	2212	G27	4108	B13		
L	2213	G29	4201	A27		
	2214	G29	4204	F32		
	2215	G31	4205	H26		
	2216	G31	5010	E 3		
	2217	D31	5010	L 6		
	2218	D31	5035	I21		
	2219	H34	5036	M21		
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	2221	D34	5038	N21		
	2222	D33	5039	G20		
	2404	G21	5042	N23		
	3012	K18	5100	F 3		
	3013	K18	5101	E 4		
	3014	K18	5102	E 8		
	3015	M19	5103	B14		
N	3016	M18	5103	J14		
	3017	M20	5104	K11		
	3019	K25	5104	C11		
	3020	L25	5105	G14		
	3021	L27	5105	O14		
	3030	L18	6037	G21		
	3031	I19	6038	O21		
	3036	H22	6039	N26		
O	3037	H21	6040	K30		
	3038	N22	6041	L30		
	3039	O22	6042	L30		
	3040	O20	6043	M32		
	3041	M21	6101	F 5		

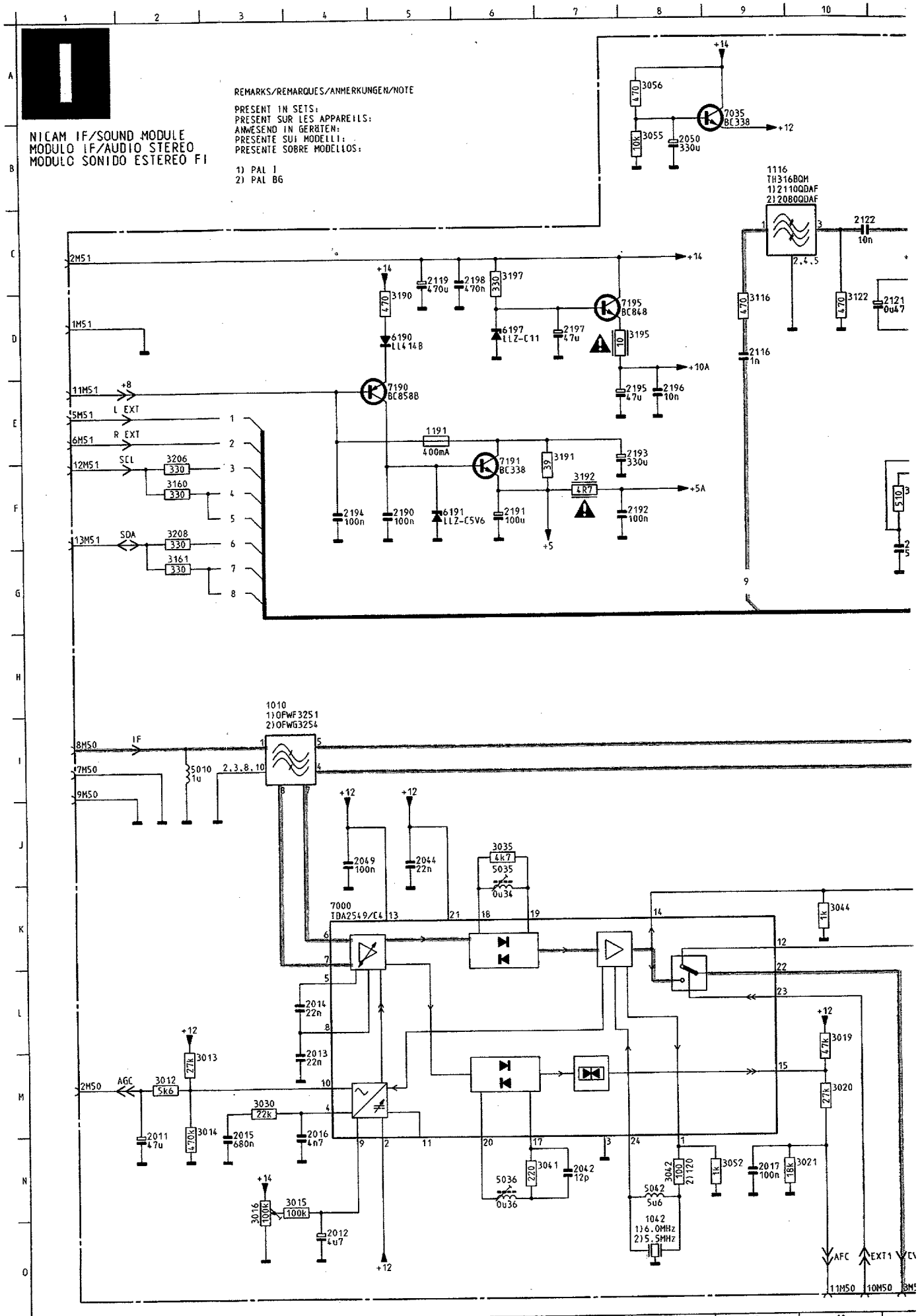
I

NICAM IF/SOUND MODULE
MODULO IF/AUDIO STEREO
MODULO SONIDO ESTEREO FI

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

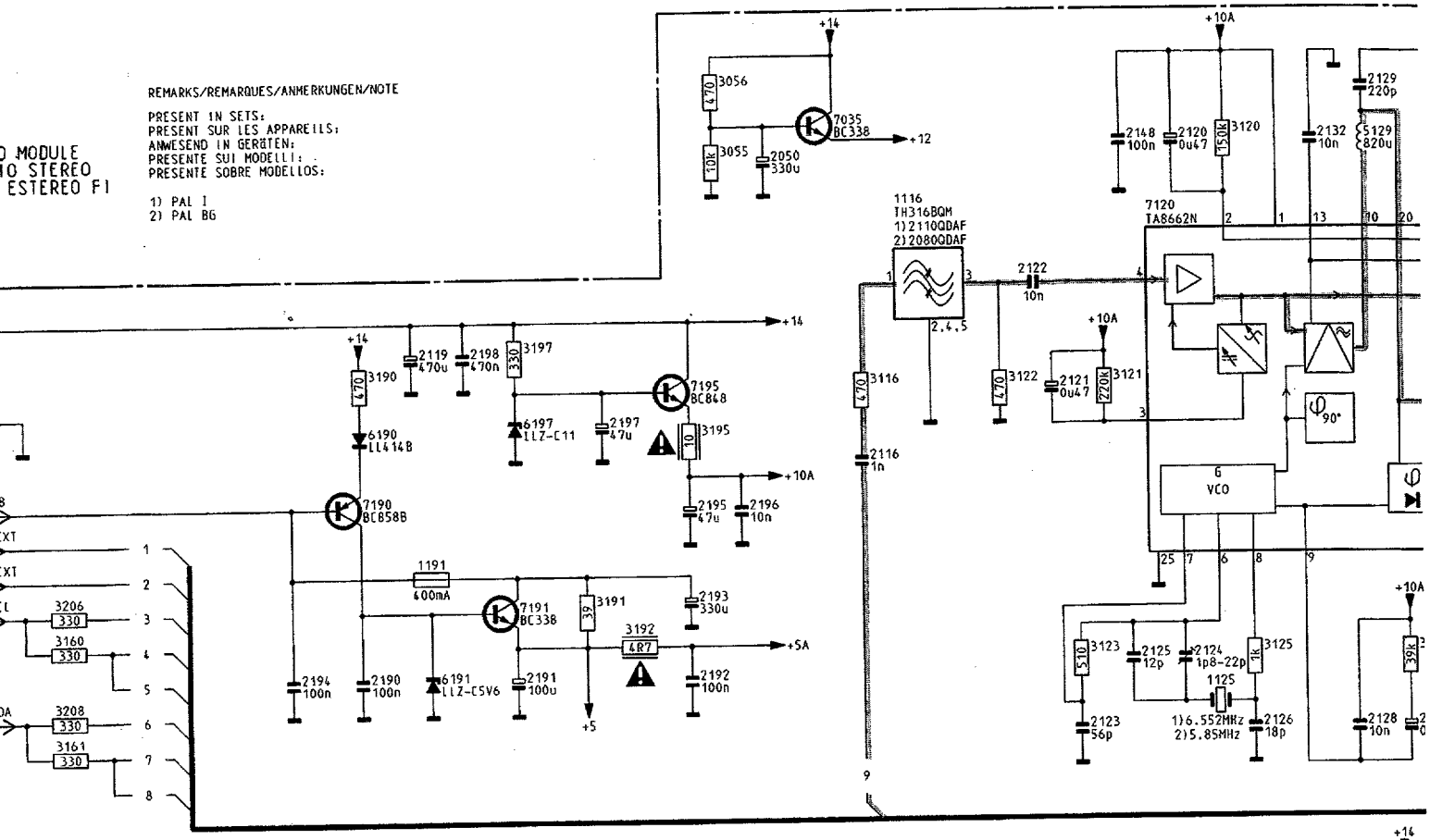
1) PAL I
2) PAL BG

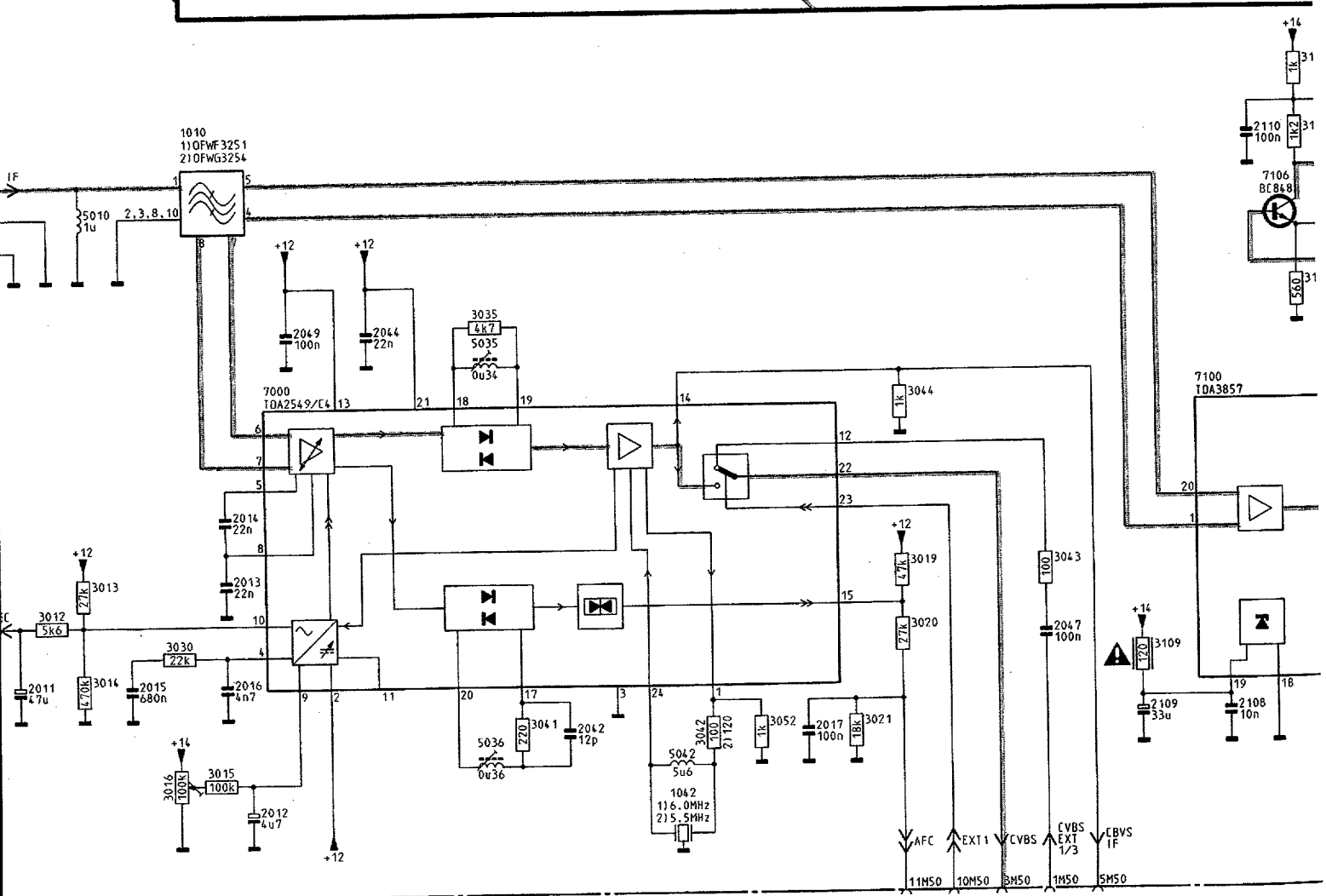


REMARKS/REMARQUES/ANMERKUNGEN/NOTE

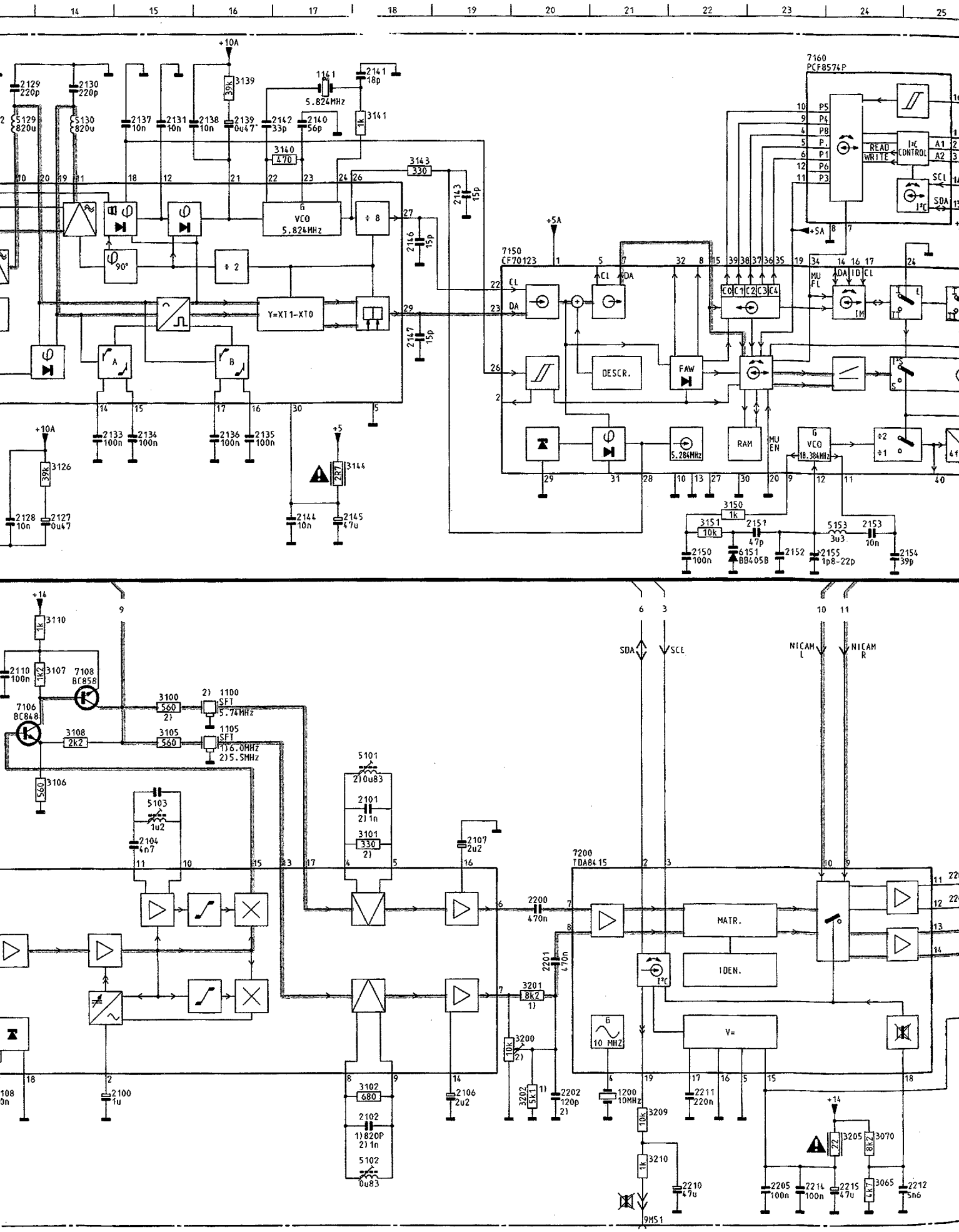
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) PAL I
2) PAL BG

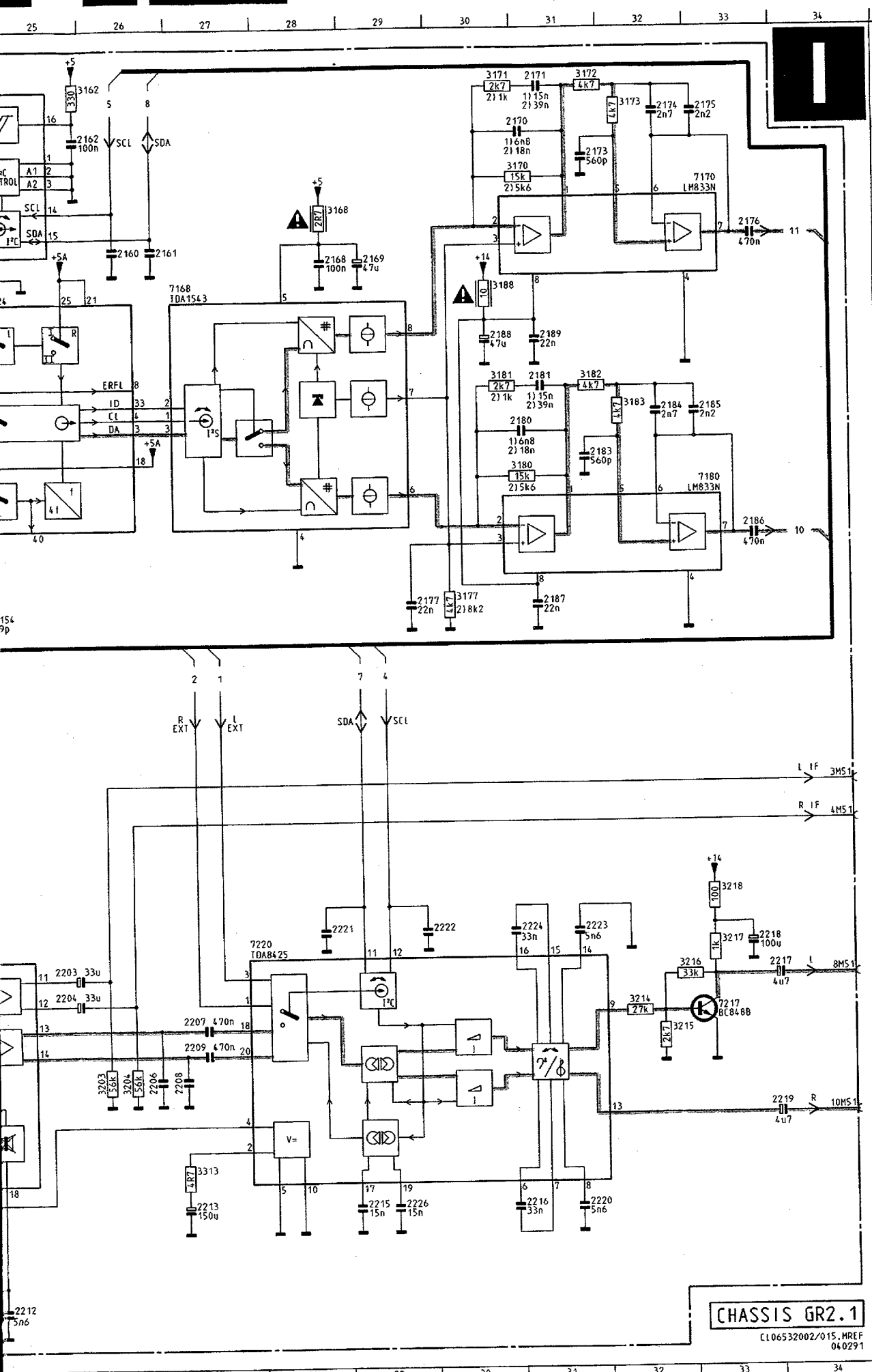




NICAM IF/sound module / NICAM ZF/Tonmodul /



Module FI/son NICAM



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	1100	I 16	2220	N31
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A	1116	B 9	2222	K30
	1125	F12	2223	K31
	1141	A17	2224	K31
	1191	E 5	2226	N29
	1200	N21	3012	M 2
	2011	N 2	3013	M 2
	2012	O 4	3014	M 2
	2013	M 4	3015	N 4
B	2014	L 4	3016	N 3
	2015	N 3	3019	L10
	2016	N 4	3020	M10
	2017	N 9	3021	N 1
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	2047	M11	3041	N 6
	2049	J 4	3042	N 8
C	2050	B 8	3043	L11
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	2101	J18	3052	N 9
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	2104	K15	3056	A 8
	2106	N19	3065	O24
	2107	K19	3070	N24
D	2108	N13	3100	I15
	2109	N12	3101	K18
	2110	I13	3102	N18
	2116	D 9	3105	I15
	2119	C 5	3106	J14
	2120	B12	3107	I14
	2121	D11	3108	I14
	2122	C10	3109	M12
E	2123	G11	3110	H14
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	2127	G14	3122	D10
	2128	G13	3123	F11
	2129	A13	3125	F12
F	2130	A14	3126	F14
	2131	B15	3139	A16
	2132	B13	3140	B17
	2133	F14	3141	A18
	2134	F15	3143	B18
	2135	F16	3144	F17
	2136	F16	3150	F22
	2137	B15	3151	G22
G	2138	B16	3160	F 2
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	2140	B17	3162	A26
	2141	A18	3168	B28
	2142	B17	3170	B31
	2143	C19	3171	A30
	2144	G17	3172	A31
H	2145	G17	3173	A32
	2146	C18	3177	G30
	2147	D18	3180	E31
	2148	B11	3181	D30
	2150	G22	3182	D31
	2151	G23	3183	E32
	2152	G23	3188	C30
	2153	G24	3190	D 5
I	2154	G24	3191	E 7
	2155	G23	3192	F 7
	2160	C26	3195	D 8
	2161	C26	3197	C 6
	2162	B26	3200	M20
	2168	C28	3201	M20
	2169	C29	3202	N20
J	2170	A31	3203	L26
	2171	A31	3204	L26
	2173	B31	3205	N24
	2174	A32	3206	F 2
	2175	A33	3208	F 2
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K	2181	D31	3215	L32
	2183	E31	3216	K32
	2184	E32	3217	K33
	2185	E33	3218	J33
	2186	F33	3313	M27
	2187	G31	5010	I 2
	2188	D30	5035	J 6
	2189	D31	5036	N 6
L	2190	F 5	5042	N 8
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	2192	F 8	5102	O18
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	2208	L27	7150	C19
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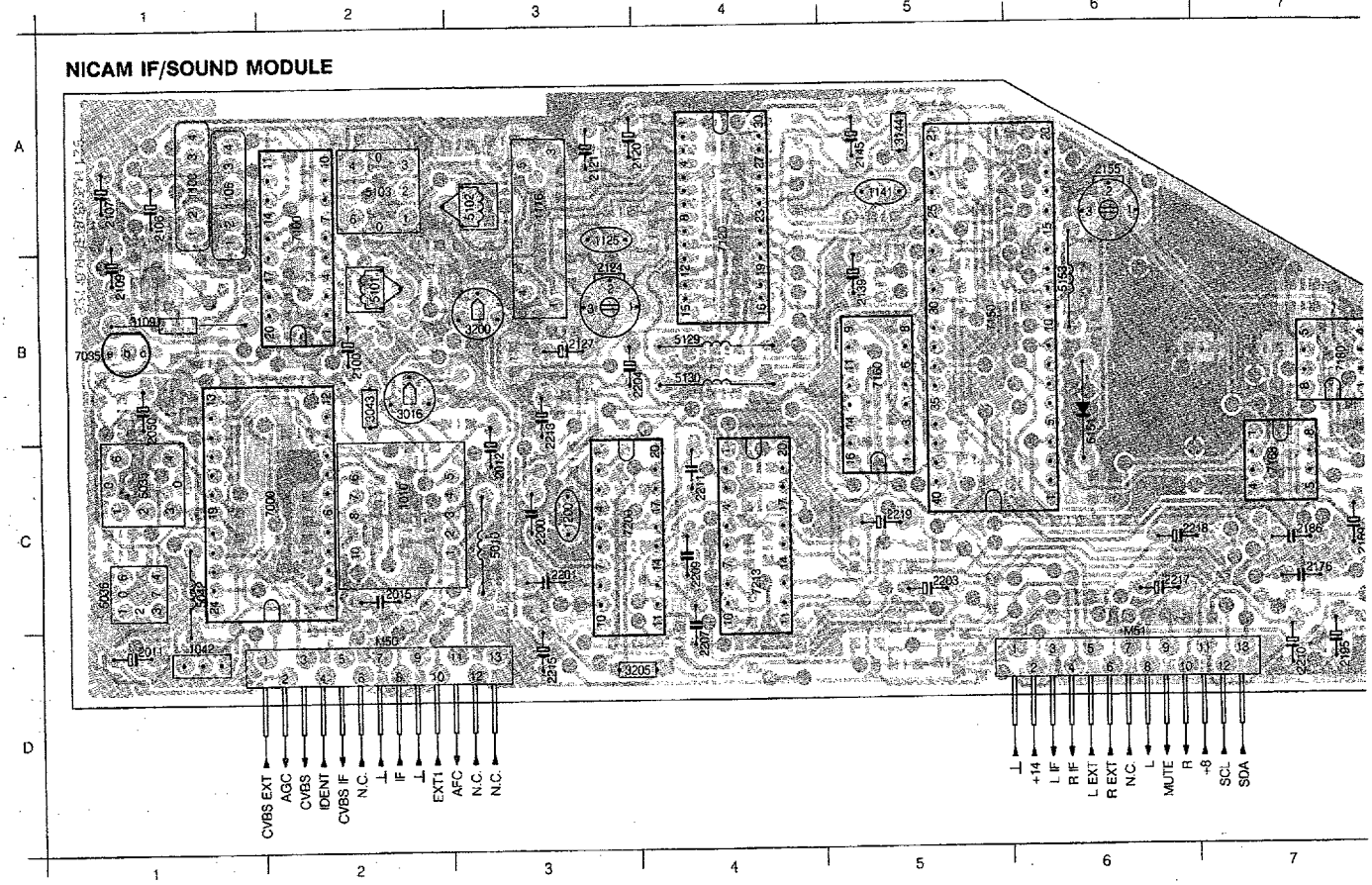

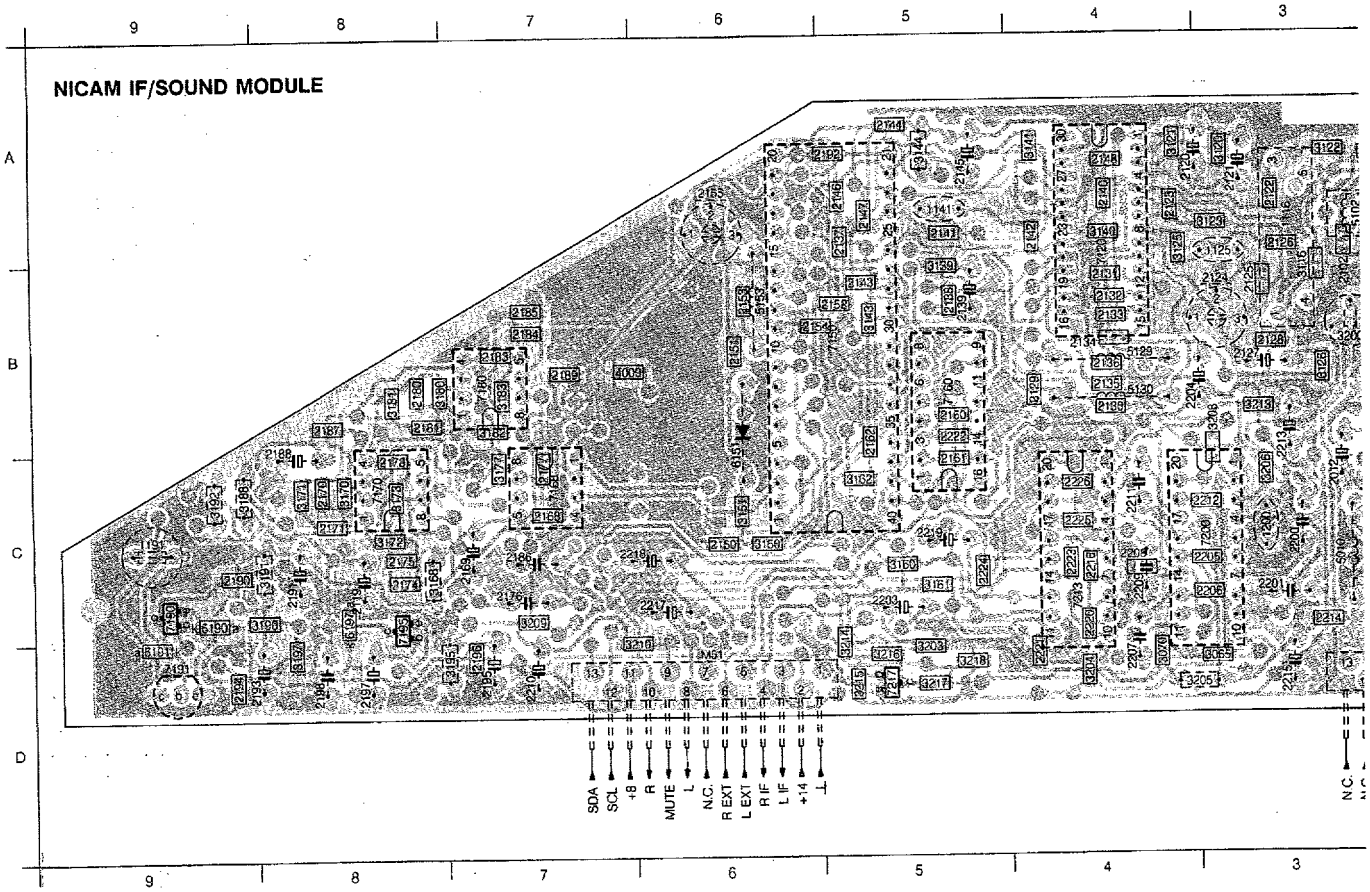

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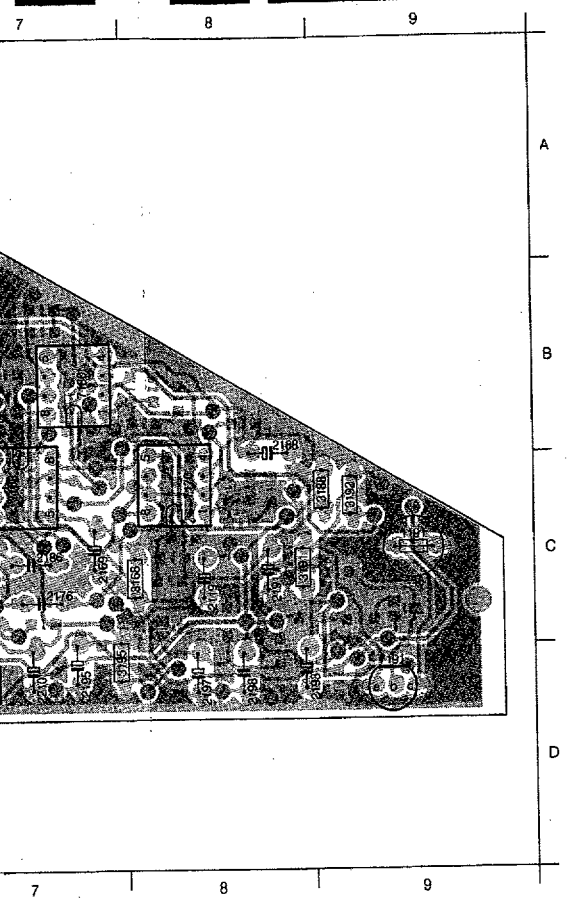

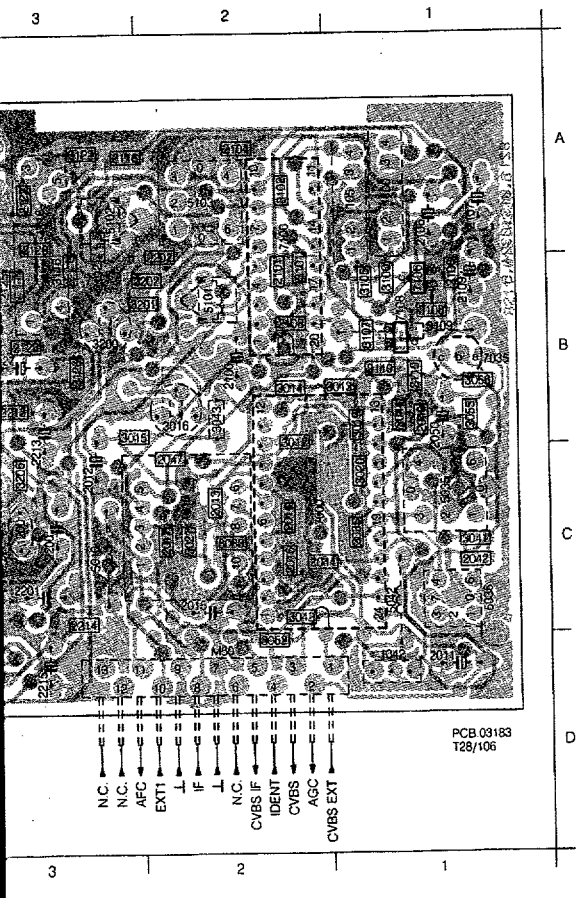

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1141	A5	3042	C2
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2012	C3	3055	B1
2013	C2	3058	B1
2014	C2	3065	D3
2015	C2	3070	D4
2016	C2	3100	B1
2017	C2	3101	B2
2042	C1	3102	A2
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2107	A1	3122	A3
2108	B2	3123	A3
2109	B1	3125	B4
2110	B1	3126	B3
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2119	C8	3140	A4
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2200	C3	7180	B7
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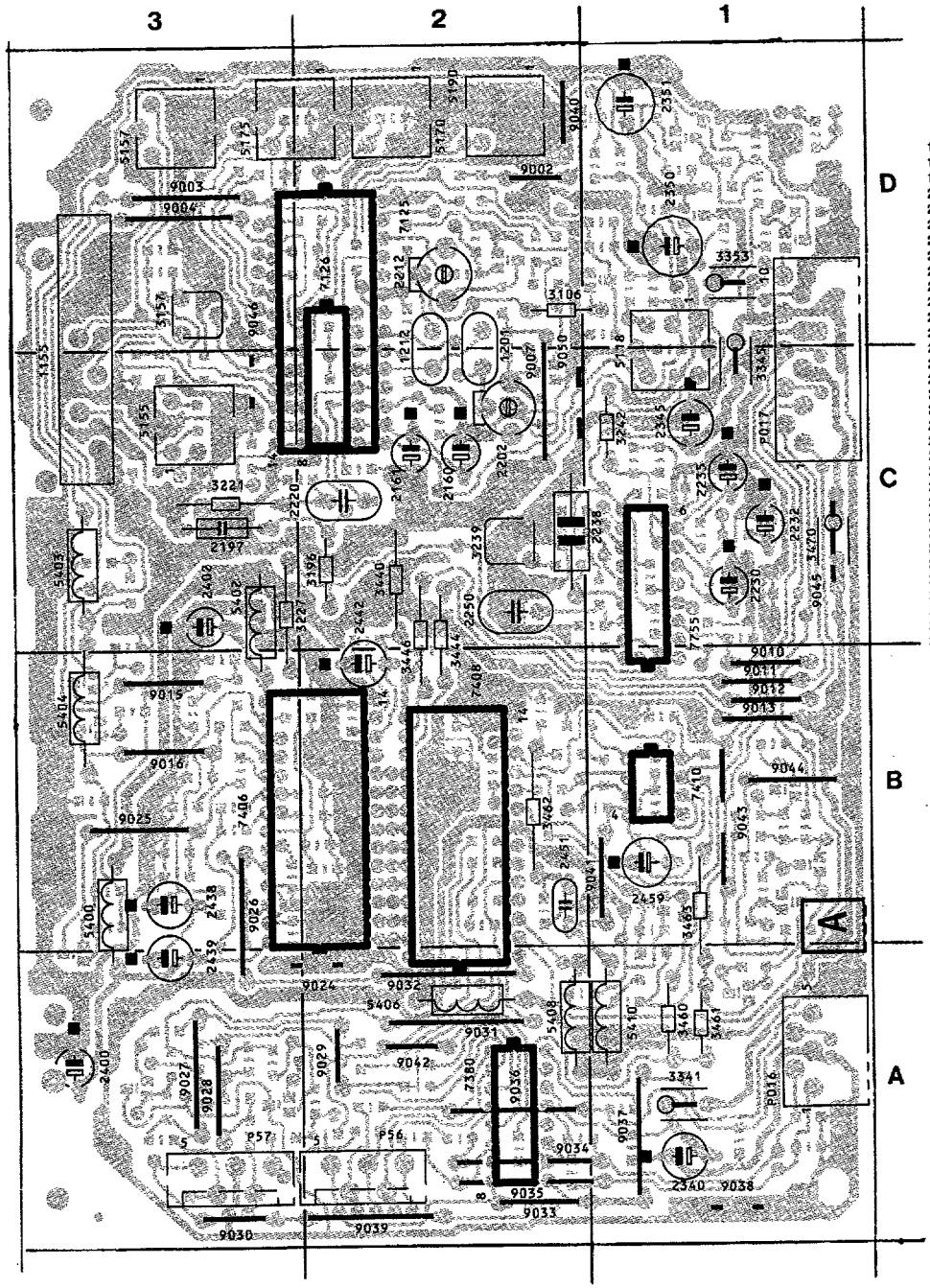

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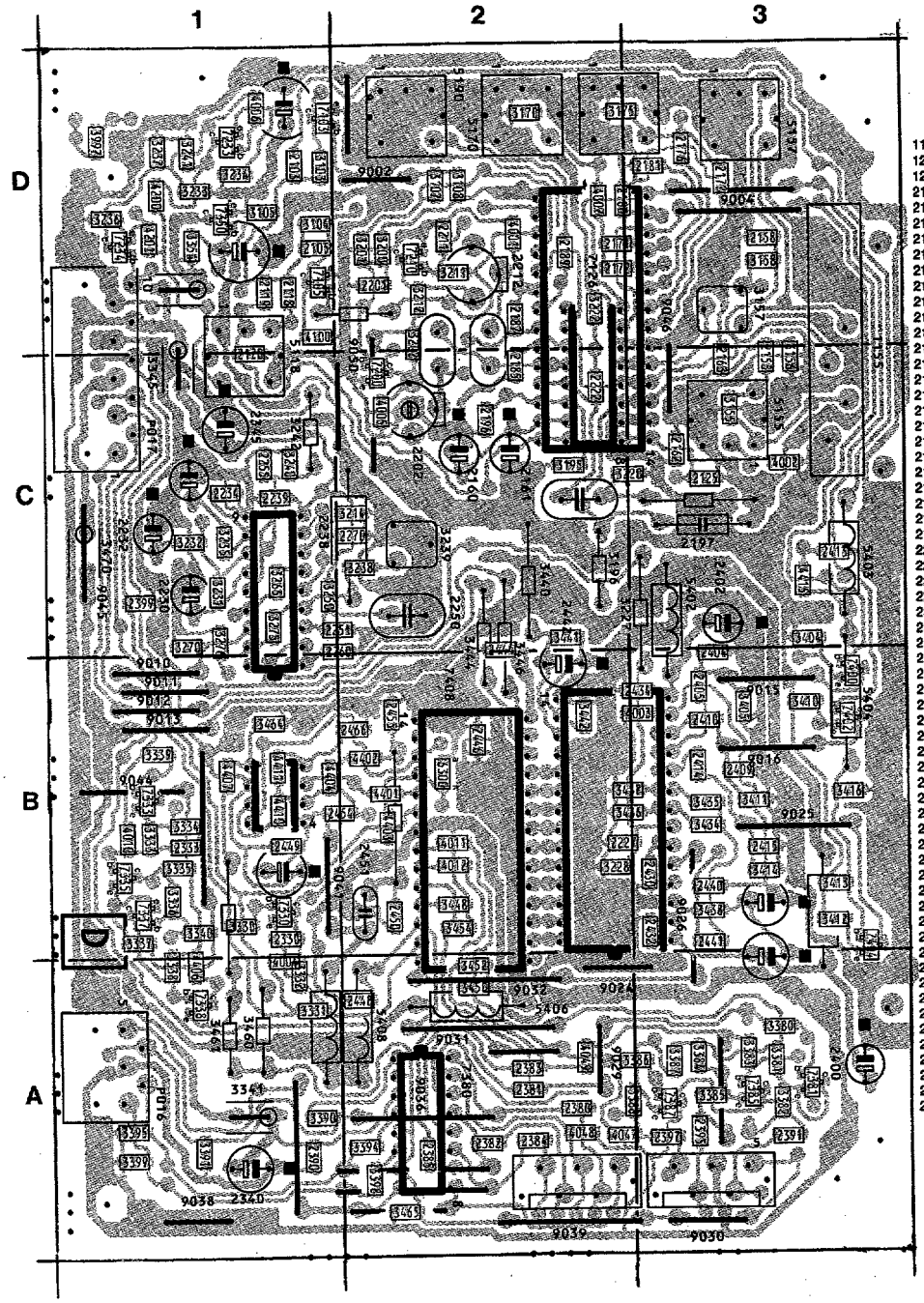

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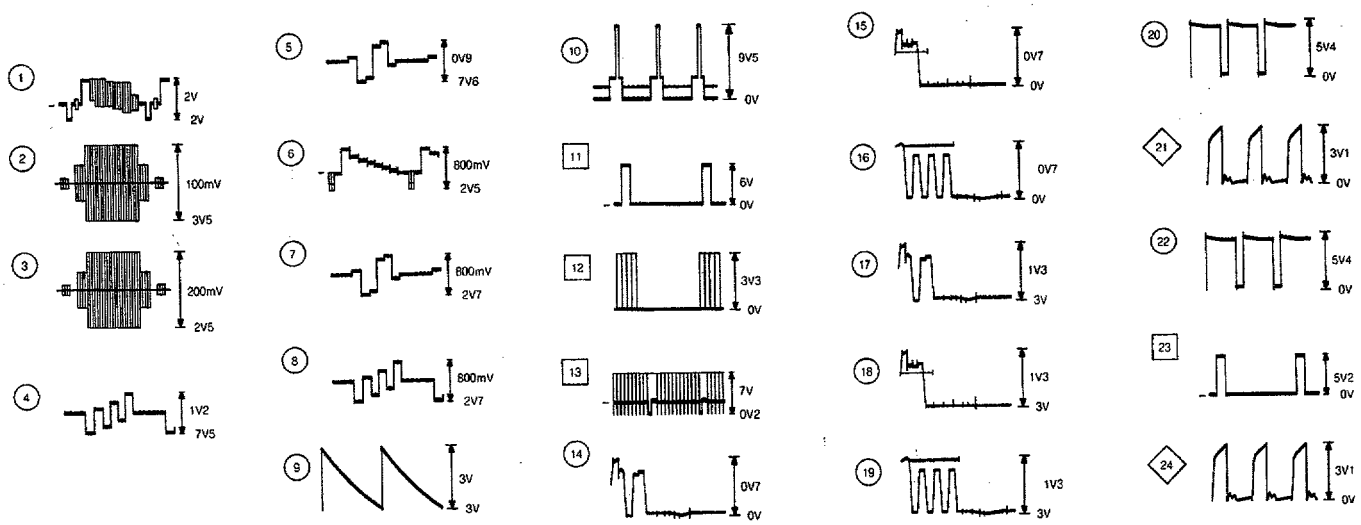

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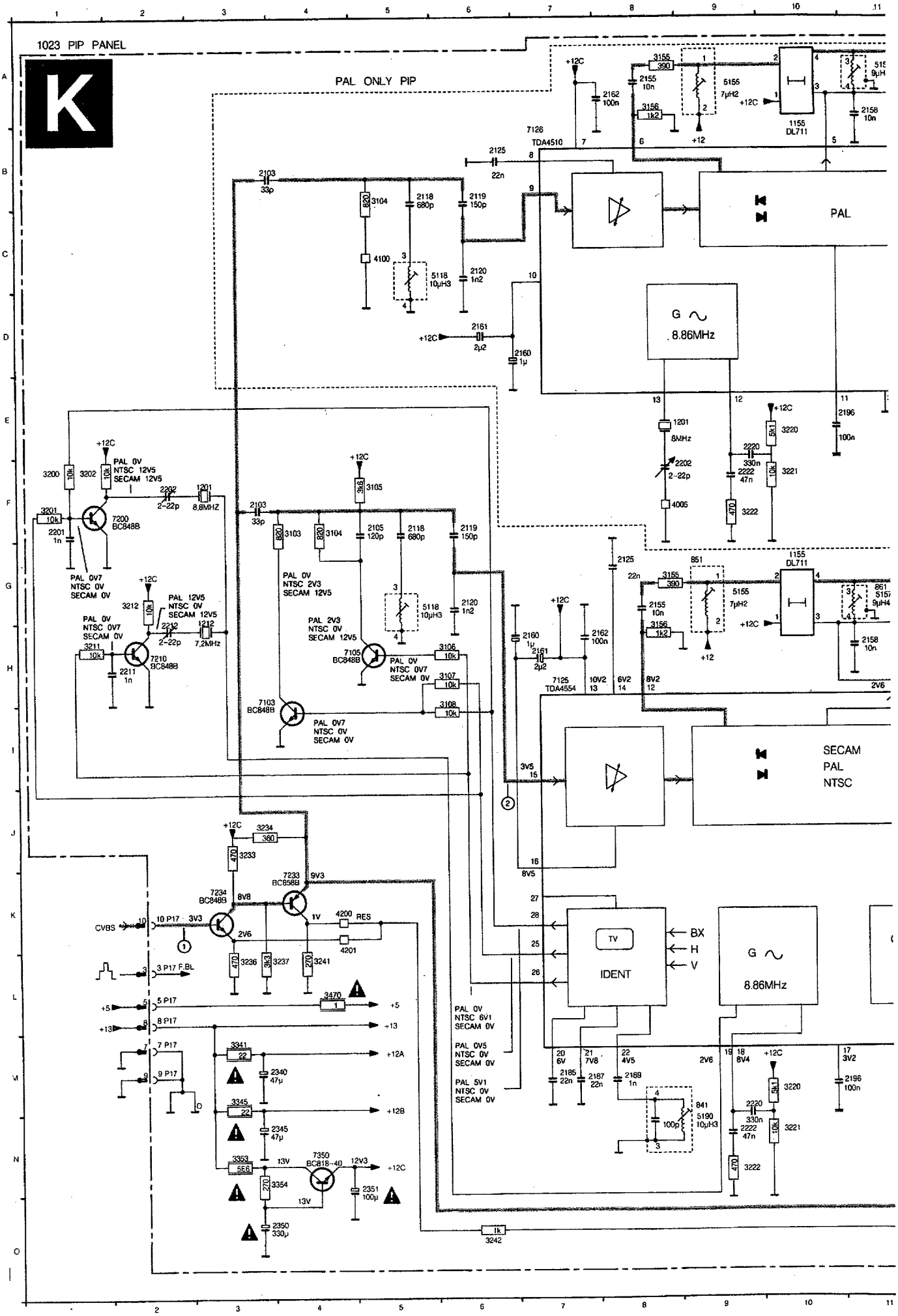

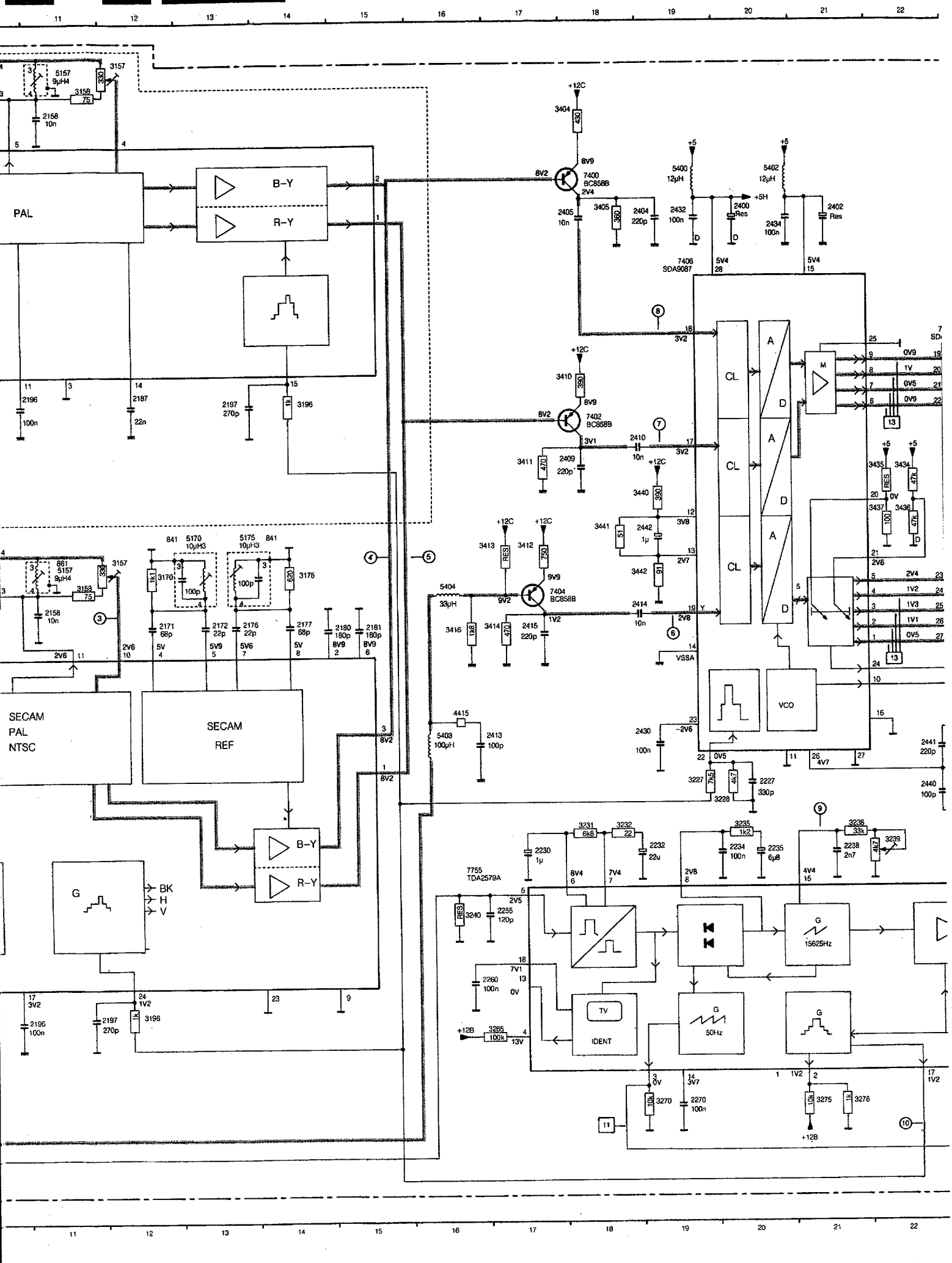
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+5
+5H
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8V2
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3V2
3V8
2V7
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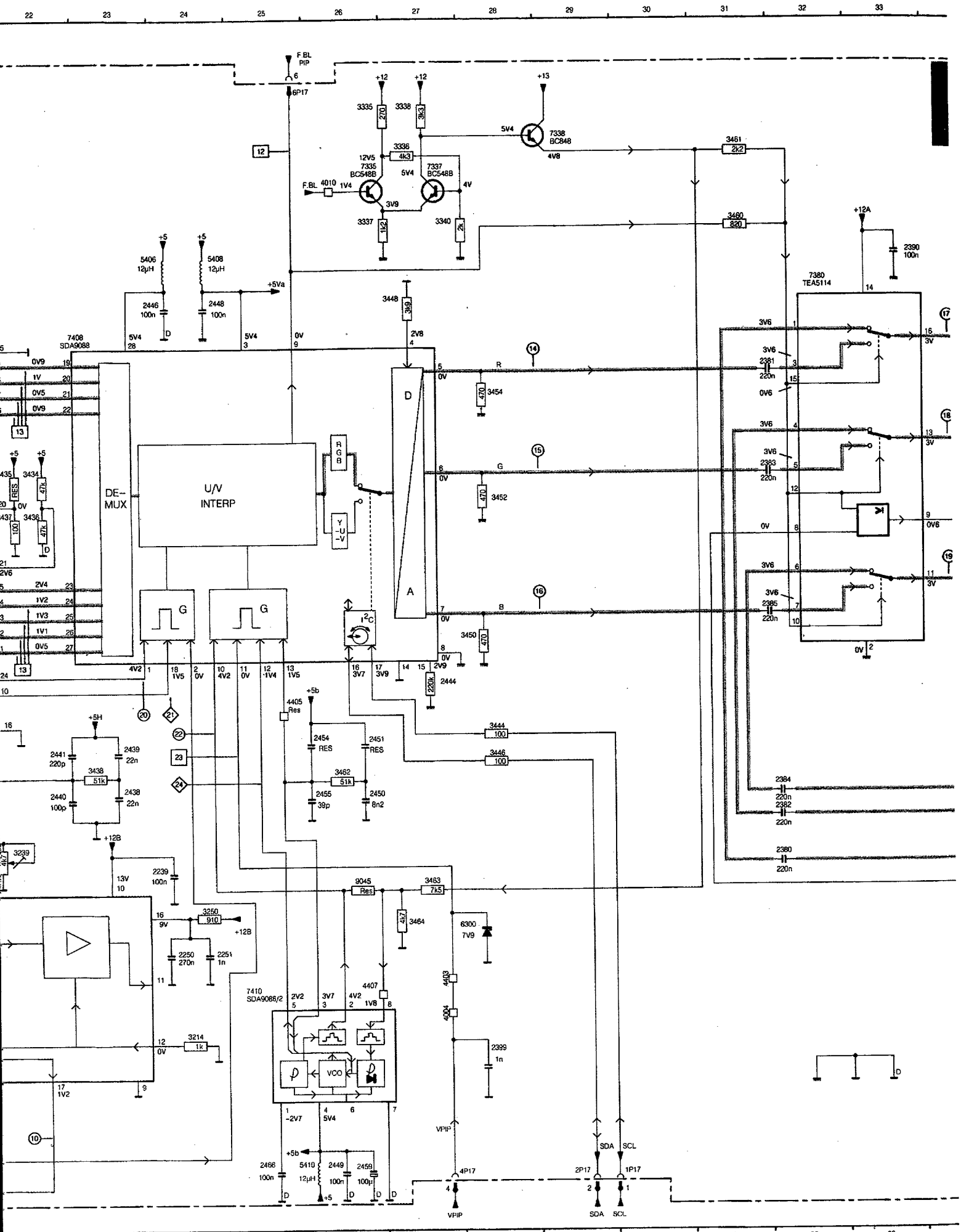
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4V8
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12V5
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7337 BC548B
F.BL 4010 1V4
3V9
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3338 3k3
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3340 2k
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+5
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5V4
0V
2V8
3448 3k9
7408 SDA9088
DE-MUX
U/V INTERP
R G B
Y -U -V
D
A
G
I²C
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3452 470
3450 470
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3434 47k
3436 47k
3435 RES
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2440 100p
2438 22n
+12B
3239 4k7
2239 100n
3250 910
2250 270n
2251 1n
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2451 RES
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2455 39p
2450 8n2
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3446 100
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4004
2399 1n
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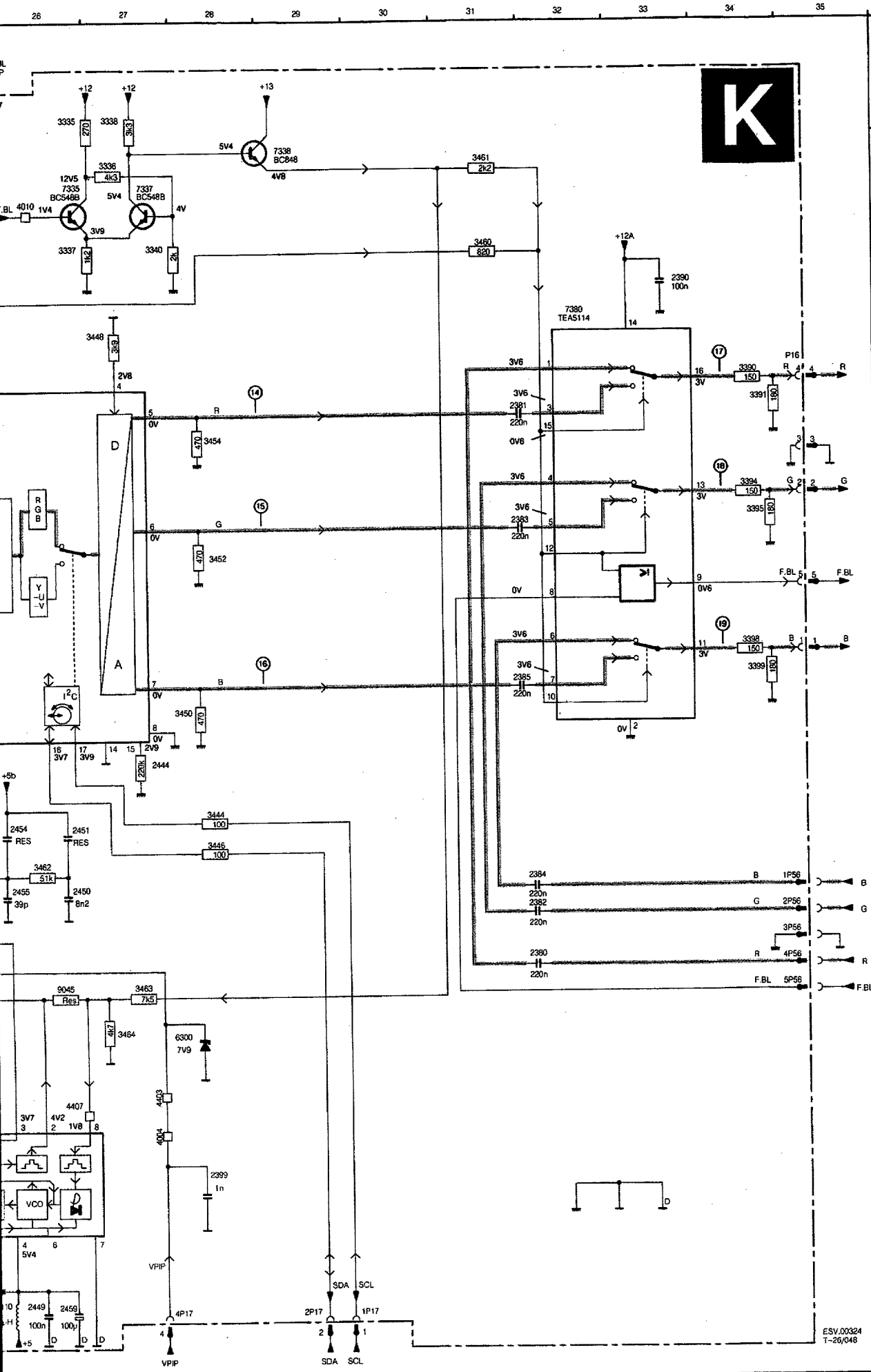

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2222 F9
2222 N9
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2251 L24
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2448 D24
2449 O26
2450 J26
2451 I26
2454 I26
2455 J26
2459 O26
2466 O25
3103 F4
3104 B5
3104 F4
3105 F5
3106 H6
3107 H6
3108 I6
3155 A8
3156 G8
3156 A8
3156 H8
3157 A12
3157 G12
3158 A11
3158 G11
3170 G12
3175 G14
3196 E14
3196 M12
3200 F1
3201 F1
3202 F1
3211 H1
3212 G2
3214 M24
3220 E10
3220 M10
3221 F10
3221 N10
3222 F9
3222 N9
3227 J19
3228 J20
3231 K18
3232 K18
3233 J3
3234 J3
3235 K20
3236 L3
3237 L3
3238 K21
3239 K22
3240 L16
3241 L4
3242 O6
3250 L24
3265 M17
3270 N19
3275 N21
3276 N21
3335 A26
3336 B27
3337 C26
3338 A27
3340 C27
3341 M3
3345 M3
3353 N3
3354 N3
3390 D34
3391 E34
3394 F34
3395 F34
3399 G34
3399 H34
3404 A18
3405 C18
3410 E18
3411 F17
3412 G17
3413 G17
3414 H17
3416 H16
3434 F22
3435 F22
3436 G22
3437 G22
3438 J23
3440 F19
3441 G18
3442 G19
3444 I28
3446 J28
3448 D27
3450 H28
3452 F28
3454 E28
3460 C31
3461 B31
3462 J26
3463 K27
3464 L27
3470 L4
4004 M27
4005 F9
4010 B26
4100 C5
4200 K4
4201 K4
4403 M27
4405 I25
4407 M26
4415 I16
5118 C6
5118 G5
5155 A9
5155 G9
5157 A11
5157 G11
5170 G13
5175 G13
5190 N9
5400 B19
5402 B20
5403 I16
5404 G16
5406 C24
5408 C24
5410 O25
6300 L28
7103 H4
7105 H5
7125 H7
7126 B7
7200 F2
7210 H2
7233 K4
7234 K3
7335 B26
7337 B27
7338 B29
7350 N4
7380 D32
7400 B18
7402 E18
7404 H17
7406 C19
7408 D23
7410 M25
7755 K16
9045 K26

7.1 CHASSIS GR2.1

Electrical settings

Setting conditions .

All electrical settings should be made under the following conditions:

- supply voltage: 220 - 240 V ± 10%; 50 Hz ± 5%
- warming-up time ≈ 10 minutes
- the voltages and oscillograms have been measured with regard to tuner earth.
- measuring probe: Ri > 10 MΩ; Ci < 2.5 pF.

1. Settings on the carrier board

1.1 +148V/+95V supply voltage

Connect a voltmeter over C2631.
Using R3635, set the supply voltage to +148V ± 0.5V for 25" and 28" units or to 95V ± 0.5V for 21" units.

1.2 Focusing

This is set using the focusing potentiometer (on the top of the line output transformer).

1.3 Vg2 setting

Connect a pattern generator and supply a blanking frame signal (black picture). Switch the unit to the service default mode (see section 9).
Connect an oscilloscope to the emitters of transistors 7304 and 7364 on the picture tube module. Set the oscilloscope to frame frequency. Measure the DC voltage level of the measuring pulses (see Fig. 7.2). Using the Vg2 potentiometer on the line output transformer, set the measuring pulse with the lowest DC voltage level to:

* +153V ± 5V for 25" and 28" blackline units (protected high-voltage cable)
* +130V ± 5V for 28" non-blackline units
* +118V ± 5V for 25" non-blackline units
* +120V ± 5V for 21" units.

1.4 Horizontal synchronization

Connect pin 5-IC7470 to pin 9-IC7470.
Supply an aerial signal and tune the set.
Adjust potentiometer 3457 until the picture is straight.
Remove the interconnection.

1.5 Horizontal centring

Set using potentiometer 3461.

1.6 Picture width

Set using potentiometer 3525.

1.7 Vertical centring

Set using potentiometer 3516.

1.8 Picture height

Set using potentiometer 3504.

1.9 East/West correction

Set using potentiometer 3521. This setting is only for 25" and 28" units.

1.10 Chroma bandpass filte

a. Setting for PAL/SECAM s

Connect a signal generat
pin 20 of the euroconnec
frequency to 4.286 MHz/
to EXT1. Connect pin 27-
(+12V). Connect an oscill
Set 5301 to maximum am
Remove the interconnecti

b. Setting for PAL sets (TD

Connect a signal generat
pin 20 of the euroconnec
frequency to 4.43 MHz. C
Connect an oscilloscope
Set 5301 to maximum am

1.11 Chroma auxiliary oscil

Connect a pattern genera
colour bar pattern. Conne
(TDA4510) or pin 17-IC73
Set 2313 so that the colo
practically stopped. Remo

1.12 SECAM demodulators (TDA4650)

Connect a pattern genera
black pattern. Connect ar
pin 1-IC7306. Set 5304 t
Connect the oscilloscope
to minimum amplitude.

1.13 White balance

Connect a pattern genera
picture. Switch on the se
and select "WHITE BALA
Set the values of "GREE
required white balance is

1.14 Peak white limit

Switch on the service me
select "WHITE BALANCE
Set "WHITE LIMIT" to the
- 23 for blackline units
- 53 for non-blackline u
- 53 for 21" units.

1.15 Cut-off points of the p

Connect a pattern genera
picture. Switch on the se
"CUT OFF". Switch on "D
Set "RED", "GREEN" and
respective guns give no

1.16 Options

Switch on the service me
or "OPTION 2".
Switch the options "ON"
whether the following op
- "PIP" on a PIP set
- "2ND SCART" on a se
- "TELETEXT" on a tele
- "AUTO STORE" for th
  in the installation men
- "SVHS" for the Y/C cc
- "MULTI SYSTEM" for
- "HYPERBAND" for a t
  to the frequency band
- "UHF ONLY" for a tun
  to the UHF band
- "NICAM TWIN" for ste
  receive NICAM sound

al settings

1.10 Chroma bandpass filter

a. Setting for PAL/SECAM sets (TDA4650)

Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.286 MHz/0.2 Vpp. Switch the unit to EXT1. Connect pin 27-IC7306 to pin 13-IC7306 (+12V). Connect an oscilloscope to pin 15-IC7306. Set 5301 to maximum amplitude.
Remove the interconnection.

b. Setting for PAL sets (TDA4510)

Connect a signal generator (e.g. PM 5326) to pin 20 of the euroconnector (EXT1) and set its frequency to 4.43 MHz. Connect the unit to EXT1. Connect an oscilloscope to pin 9-IC7305. Set 5301 to maximum amplitude.

1.11 Chroma auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 11-IC7305 (TDA4510) or pin 17-IC7306 (TDA4650) to earth. Set 2313 so that the colour on the screen has practically stopped. Remove the interconnection.

1.12 SECAM demodulators for PAL/SECAM sets (TDA4650)

Connect a pattern generator and supply a SECAM black pattern. Connect an oscilloscope to pin 1-IC7306. Set 5304 to minimum amplitude. Connect the oscilloscope to pin 3-IC7306. Set 3312 to minimum amplitude.

1.13 White balance

Connect a pattern generator and select a white picture. Switch on the service menu (see section 9) and select "WHITE BALANCE".
Set the values of "GREEN" and "BLUE" so that the required white balance is achieved.

1.14 Peak white limit

Switch on the service menu (see section 9) and select "WHITE BALANCE".
Set "WHITE LIMIT" to the value:
- 23 for blackline units
- 53 for non-blackline units
- 53 for 21" units.

1.15 Cut-off points of the picture tube

Connect a pattern generator and select a black picture. Switch on the service menu and select "CUT OFF". Switch on "DISABLE" ("ON").
Set "RED", "GREEN" and "BLUE" until the respective guns give no more light on the screen.

1.16 Options

Switch on the service menu and select "OPTION 1" or "OPTION 2".
Switch the options "ON" and "OFF" according to whether the following options are present:
- "PIP" on a PIP set
- "2ND SCART" on a set with two euroconnectors
- "TELETEXT" on a teletext set
- "AUTO STORE" for the automatic tuning facility in the installation menu
- "SVHS" for the Y/C connector in mono sets
- "MULTI SYSTEM" for multisystem sets
- "HYPERBAND" for a tuner which can be tuned to the frequency band of 300 MHz to 450 MHz
- "UHF ONLY" for a tuner which can only be tuned to the UHF band
- "NICAM TWIN" for stereo sets which can also receive NICAM sound.

2. Settings on the IF/sound module

2.1 AFC and the picture demodulator

a. Setting for multisystem units

Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 33.4 MHz for mono sets or to 33.95 MHz for stereo sets. Modulate (AM) the signal with, for example, 1kHz.
Tune mono sets to VHF1 band at a tuning voltage of approximately 5V at pin 11 of the tuner. The "search" (selection B of the manual installation menu) can be stopped by selecting menu selection C "programme".
Set stereo sets to a tuning frequency of 45 MHz. Select system France.
AFC: using 5036 set the voltage at pin 15-IC7000 to 6V (DC).
Picture demodulator: set 5035 to a maximum (undistorted) signal at pin 22-IC7000.
Then set the frequency of the signal generator to 38.9 MHz. Select system Europe on the set.
AFC: using 5038 set the voltage at pin 15-IC7000 to 6V (DC).
Picture demodulator: set 5037 to a maximum (undistorted) signal at pin 22-IC7000.
Adjacent channel suppression (mono sets):
Then set the frequency of the signal generator to 33.4 MHz. Place pin 9-IC7000 at a fixed voltage of +1V using a laboratory supply. Tune the set to the UHF band and select system France.
Set 5005 to a minimum signal at pin 22-IC7000.

b. Setting for single-system units

Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 38.9 MHz. Modulate (AM) the signal with, for example, 1kHz.
AFC: using 5036 set the voltage at pin 15-IC7000 to 6V (DC).
Picture demodulator: set 5035 to a maximum (undistorted) signal at pin 22-IC7000.

2.2 RF-AGC

If the picture from a strong local transmitter is distorted, adjust 3016 until the picture is not distorted.

2.3 MF-AGC (Multisystem units)

Connect a pattern generator and supply a SECAM-L colour bar signal. Connect an oscilloscope to pin 22-IC7000. Set the amplitude of the video signal with 3048 to 1.7 Vpp for stereo units or to 1.8 Vpp for mono units.

2.4 AM-IF sound filter (Multisystem units)

Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 30.9 MHz. Modulate (AM) the signal with 1kHz, for example. Tune the unit to UHF band and select system France. Connect an oscilloscope to pin 9-IC7100 and set 5100 to minimum amplitude.
Place pin 3-IC7100 on a fixed voltage of +2V using a laboratory supply.
Set the frequency of the generator to 32.4 MHz and set 5101 and 5102 to maximum amplitude.

ıe IF/sound module

:ture demodulator
system units
ıenerator (e.g. PM 5326) via a
› pin 17 of the tuner and set its
MHz for mono sets or to
reo sets. Modulate (AM) the
ımple, 1kHz.
› VHF1 band at a tuning voltage
V at pin 11 of the tuner. The
B of the manual installation
›ped by selecting menu selection

a tuning frequency of 45 MHz.
ıce.
et the voltage at pin 15-IC7000

tor: set 5035 to a maximum
l at pin 22-IC7000.
ency of the signal generator to
system Europe on the set.
et the voltage at pin 15-IC7000

tor: set 5037 to a maximum
l at pin 22-IC7000.
suppression (mono sets):
ency of the signal generator to
in 9-IC7000 at a fixed voltage of
atory supply. Tune the set to the
ect system France.
mum signal at pin 22-IC7000.

system units
ıenerator (e.g. PM 5326) via a
› pin 17 of the tuner and set its
MHz. Modulate (AM) the signal
1kHz.
et the voltage at pin 15-IC7000

tor: set 5035 to a maximum
l at pin 22-IC7000.

a strong local transmitter is
016 until the picture is not

stem units)
generator and supply a
ar signal. Connect an
› 22-IC7000. Set the amplitude of
ith 3048 to 1.7 Vpp for stereo
› for mono units.

er (Multisystem units)
generator (e.g. PM 5326) via a
› pin 17 of the tuner and set its
MHz. Modulate (AM) the signal
mple. Tune the unit to UHF band
France. Connect an oscilloscope
ıd set 5100 to minimum

› on a fixed voltage of +2V using
y.
of the generator to 32.4 MHz
5102 to maximum amplitude.

2.5 IF sound demodulator (stereo and NICAM units)
Connect a signal generator (e.g. PM 5326) via a capacitor of 5p6 to pin 17 of the tuner and set its frequency to 38.9 MHz. Modulate (AM) the signal with 1kHz, for example. Connect an oscilloscope to pin 17-IC7100 (TDA3856) or pin 16-IC7101 (TDA3856) and set 5104 to minimum amplitude.

2.6 5.5 MHz or 6.0 MHz FM sound demodulator
Connect a pattern generator and supply a PAL signal with FM mono sound. Set 5105 (mono and stereo units) or 5102 (NICAM units) to maximum sound reproduction.

2.7 5.742 MHz FM sound demodulator (stereo and NICAM units)
Connect a pattern generator and supply a PAL BG signal with two-language sound. Select language II on the unit with the remote control.
Set 5103 (stereo units) or 5101 (NICAM units) to maximum sound reproduction.

2.8 Stereo matrix (stereo and NICAM units)
Connect a pattern generator and supply a PAL BG signal with stereo sound. Select only the right-hand channel sound. Set the balance of the unit completely to the left.
Set 3204 (stereo units) or 3200 (NICAM units) to minimum sound reproduction.

2.9 NICAM demodulator (NICAM units)
Connect a pattern generator and supply a PAL signal with NICAM sound. Connect the X-input of the oscilloscope to pin 19-IC7120. Connect the Y-input of the oscilloscope to pin 20-IC7120. Set the oscilloscope to the X-Y position. Set the sensitivity of the oscilloscope to 1V/div AC. Set the X and Y position so that the cross pattern is in the centre of the oscilloscope picture.
Set 2124 on a straight cross pattern (see fig. 7.3).

2.10 "Sample" clock oscillator (NICAM units)
Connect a pattern generator and supply a PAL signal with NICAM sound. Connect an oscilloscope to pin 9-IC7150. Set the sensitivity of the oscilloscope to 1V/div and the time base to 2µs/div.
Set 2155 so that a symmetrical block wave is visible.

3. Setting on the teletext

Connect pin 22-IC7830 to earth
frequency counter to pin 17-IC
6000 MHz ± 30kHz.
Remove the interconnection.

4. Settings on the PIP mo

Setting conditions
Before making each setting, er
picture with the prescribed sig
screen and that the unit has re
temperature (after ≈ 10 min.).

4.1 Horizontal synchronization
Do not supply an aerial or gen
Connect pin 28-IC7125 to pin 1
TDA4554 is present (PAL selec
5-IC7755 to earth.
Measure the frequency at pin 1
3239 set it to 15.625 Hz ± 25
Remove the interconnection.

4.2 Chroma bandpass filter
a. Setting for PIP modules wit
Connect a signal generator (e.g
10 of P17 and set its frequency
Vpp.
Connect pin 27-IC7125 to 13-IC
oscilloscope to pin 15-IC7125.
Set 5118 to maximum amplitud
Remove the interconnection.
b. Setting for PIP modules with T
Connect a signal generator (e.g
10 of P17 and set its frequency
4.43 MHz/0.2Vpp.
Connect an oscilloscope to pin
Set 5118 to maximum amplitud

4.3 PAL chroma auxiliary oscill
Connect a pattern generator ar
colour bar pattern. Connect pir
(TDA4554) or pin 11-IC7126 (TI
Set 2202 so that the colour of
practically still.
Remove the interconnection.

4.4 NTSC chroma auxiliary osc
modules with TDA4554
Connect a pattern generator ar
M colour bar pattern. Connect
earth. Set 2202 so that the col
is practically still.
Remove the interconnection.

3. Setting on the teletext decoder

Connect pin 22-IC7830 to earth. Connect a frequency counter to pin 17-IC7830 and set 5803 to 6000 MHz ± 30kHz.
Remove the interconnection.

4. Settings on the PIP module

Setting conditions
Before making each setting, ensure that a PIP picture with the prescribed signal is visible on the screen and that the unit has reached its operating temperature (after ≈ 10 min.).

4.1 Horizontal synchronization

Do not supply an aerial or generator signal.
Connect pin 28-IC7125 to pin 13-IC7125 if TDA4554 is present (PAL selection). Connect pin 5-IC7755 to earth.
Measure the frequency at pin 17-IC7755 and using 3239 set it to 15.625 Hz ± 25 Hz.
Remove the interconnection.

4.2 Chroma bandpass filter

a. Setting for PIP modules with TDA4554

Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to 4.286 MHz/0.2 Vpp.
Connect pin 27-IC7125 to 13-IC7125. Connect an oscilloscope to pin 15-IC7125.
Set 5118 to maximum amplitude.
Remove the interconnection.

b. Setting for PIP modules with TDA4510

Connect a signal generator (e.g. PM 5326) to pin 10 of P17 and set its frequency to 4.43 MHz/0.2Vpp.
Connect an oscilloscope to pin 9-IC7126.
Set 5118 to maximum amplitude.

4.3 PAL chroma auxiliary oscillator

Connect a pattern generator and supply a PAL colour bar pattern. Connect pin 17-IC7125 (TDA4554) or pin 11-IC7126 (TDA4510) to earth.
Set 2202 so that the colour of the PIP picture is practically still.
Remove the interconnection.

4.4 NTSC chroma auxiliary oscillator for PIP modules with TDA4554

Connect a pattern generator and supply an NTSC M colour bar pattern. Connect pin 17-IC7125 to earth. Set 2202 so that the colour of the PIP picture is practically still.
Remove the interconnection.

4.5 Delay line

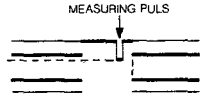
Connect a pattern generator and supply a PAL colour bar signal. Connect the X-input of the oscilloscope to pin 1-IC7125 (TDA4554) or pin 1-IC7126 (TDA4510). Connect the Y-input of the oscilloscope to pin 3-IC7125 (TDA4554) or pin 2-IC7126 (TDA4510). Set the oscilloscope to the X-Y position.
Set 5155 and 5157 so that the vectors lie in one line (points which are furthest from the origin).
Set the pattern generator to the "DEM" mode.
Set R3157 so that the vectors lie on top of one another in the origin.

4.6 SECAM identification for PIP modules with TDA4554

Connect a pattern generator and supply a SECAM colour bar signal.
Connect pin 27-IC7125 to pin 13-IC7125.
Connect an oscilloscope to pin 21-IC7125.
Set 5190 to minimum DC level.
Remove the interconnection.

4.7 SECAM demodulators for PIP modules with TDA4554

Connect a pattern generator and supply a SECAM signal without contents (black). Connect pin 27-IC7125 to pin 13-IC7125. Connect an oscilloscope to pin 1-IC7125. Using 5175, set the DC level during the scan equal to the DC level during the flyback.
In the same way set 5170, but now measure at pin 3-IC7125.
Remove the interconnection.



PRS 06772
T-26/034

Fig. 7.1

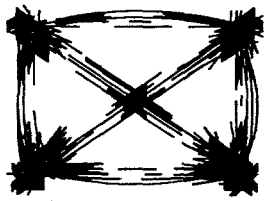


Fig. 7.2

MDA.01468
T28/826

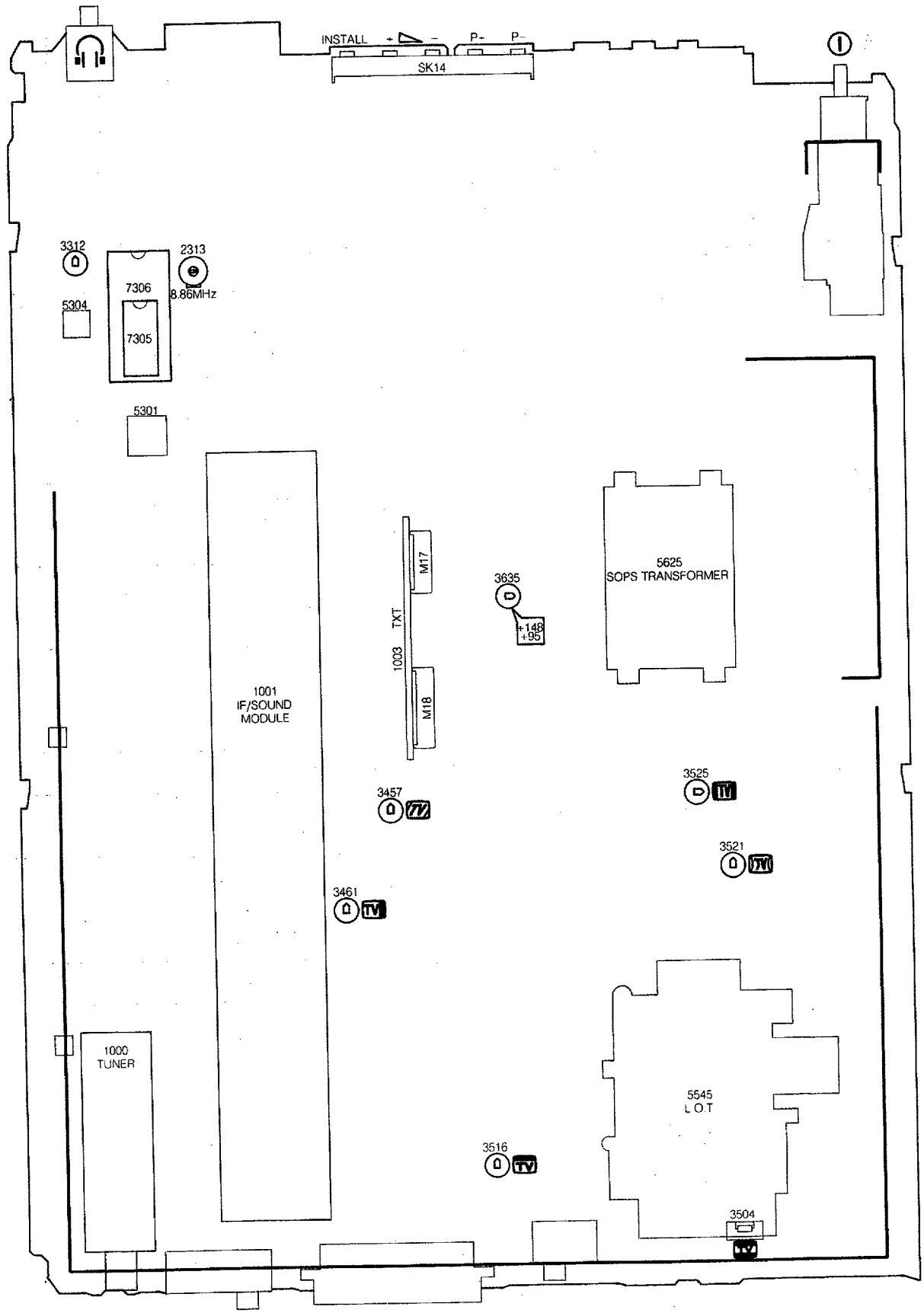
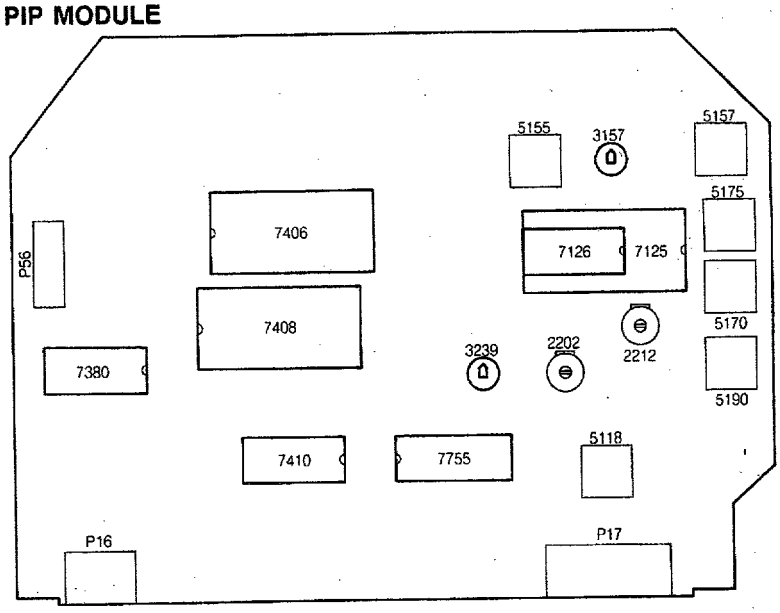
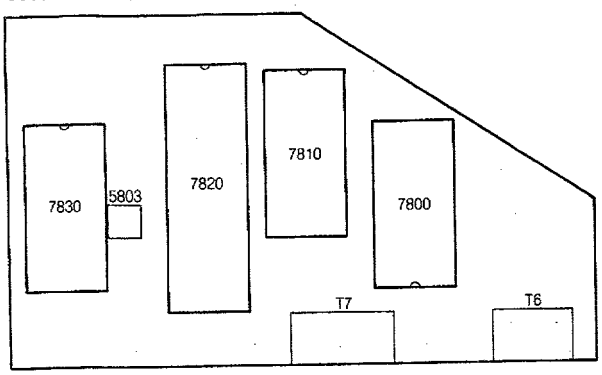

MAIN PANEL
INSTALL
SK14
3312
2313
7306
8.86MHz
5304
7305
5301
1001
IF/SOUND
MODULE
1000
TUNER
M17
TXT
1033
M18
3635
+148
+95
5625
SOPS TRANSFORMER
3457
3525
3521
3461
5545
L.O.T
3516
3504

Fig. 7.3

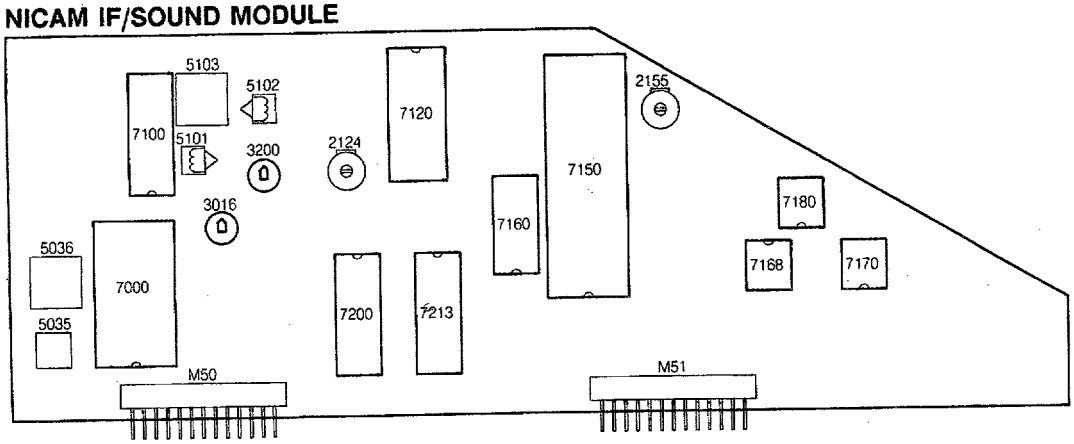
PIP MODULE



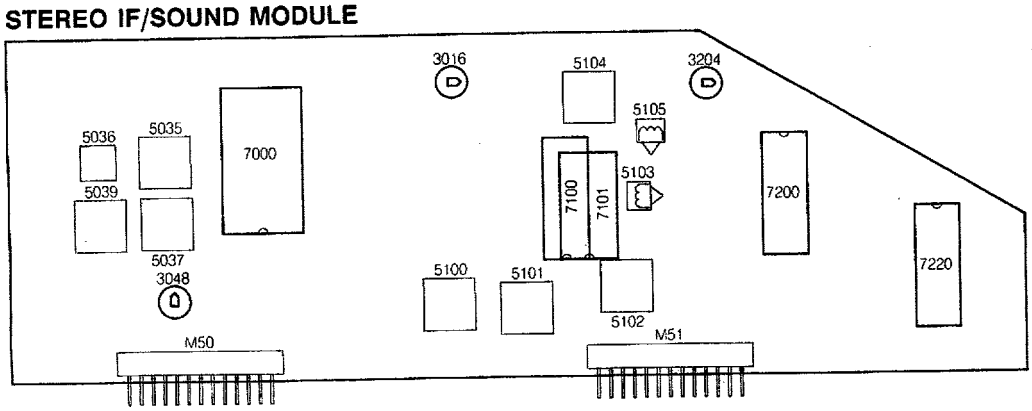
TXT MODULE



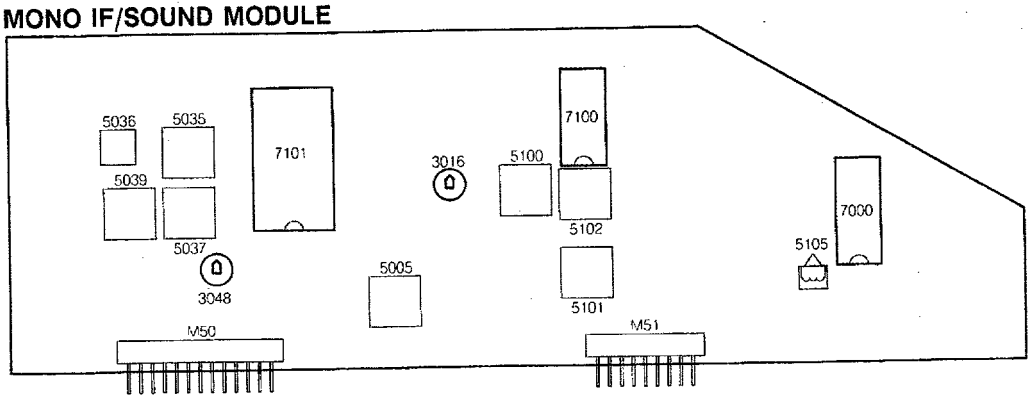
NICAM IF/SOUND MODULE



STEREO IF/SOUND MODULE



MONO IF/SOUND MODULE



MDA 02965
T28/107

Fig. 7.3

Repair tips

1. Servicing of SMDs (Surface Mounted Devices)

1.1 General cautions on handling and storage

a. Oxidation on the terminals of SMDs results in poor soldering. Do not handle SMDs with bare hands.
b. Avoid using storage places that are sensitive to oxidation such as places with sulphur or chlorine gas, direct sunlight, high temperatures or a high degree of humidity.
The capacitance or resistance value of the SMDs may be affected by this.
c. Rough handling of circuit boards containing SMDs may cause damage to the components as well as the circuit boards. Circuit boards containing SMDs should never be bent or flexed. Different circuit board materials expand and contract at different rates when heated or cooled and the components and/or solder connections may be damaged due to the stress. Never rub or scrape chip components as this may cause the value of the component to change. Similarly, do not slide the circuit board across any surface.

1.2 Removal of SMDs

a. Heat the solder (for 2-3 seconds) at each terminal of the chip. By means of litz wire and a slight horizontal force, small components can be removed with the soldering iron. They can also be removed with a solder sucker (see Fig. 8.1A) or:
b. While holding the SMD with a pair of tweezers, take it off gently using the soldering iron's heat applied to each terminal (see Fig. 8.1B).
c. Remove the excess solder on the solder lands by means of litz wire or a solder sucker (see Fig. 8.1C).

Caution on removal:

a. When handling the soldering iron, use suitable pressure and be careful.
b. When removing the chip, do not use undue force with the pair of tweezers.
c. The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 225 to 250°C).
d. The chip, once removed, must never be reused.

1.3 Attachment of SMDs

a. Locate the SMD on the solder lands by means of tweezers and solder the component on one side. Ensure that the component is positioned correctly on the solder lands (see Fig. 8.2A).
b. Next complete the soldering of the terminals of the component (see Fig. 8.2B).

Caution when attaching SMDs:

a. When soldering the SMD terminals, do not touch them directly with the soldering iron. The soldering should be done as quickly as possible; care must be taken to avoid damage to the terminals of the SMDs themselves.
b. Keep the SMD's body in contact with the printed board when soldering.
c. The soldering iron to be used (approx. 30 W) should preferably be equipped with a thermal control (soldering temperature: 225 to 250°C).
d. Soldering should not be done outside the solder land.
e. Soldering flux (of rosin) may be used, but should not be acidic.
f. After soldering, let the SMD cool down gradually at room temperature.
g. The quantity of solder must be proportional to the size of the solder land. If the quantity is too great, the SMD might crack or the solder lands might be torn loose from the printed board (see Fig. 8.3).

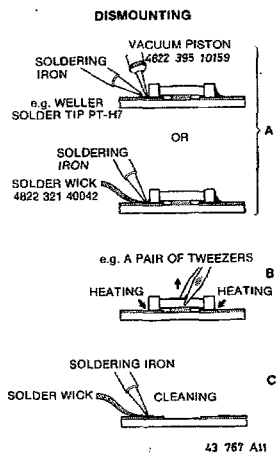


Fig. 8.1

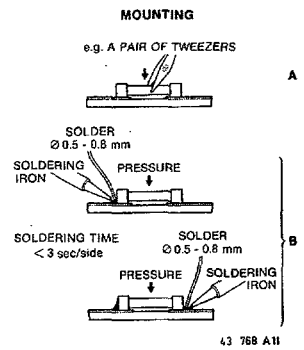


Fig. 8.2

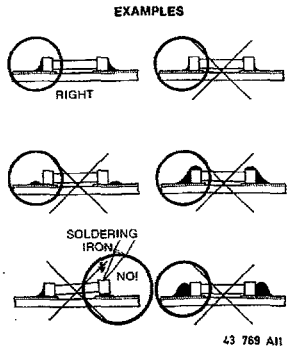


Fig. 8.3

2. Replacing the EEPROM IC7710

If the EEPROM has to be replaced during a repair, the microprocessor will load the EEPROM with a number of default values for the white balance, peak white limit and cut-off point settings.
However, all these values should be checked and adjusted, if necessary.
All options should also be set, the programs installed and personal preference set.

3. Table of fault messages

Fault indication	Description	Possible fault
OSD: ER PIP	I²C fault PIP module	* +5 on PIP module * IC7406
OSD: ER TXT	I²C fault TXT module	* +5 on teletext module * IC7800
OSD: ER NICAM	I²C fault IC7160 (NICAM units)	* +5 on MF/sound module * IC7160, C2160, C2161, C2221, C2222 * IC7213
OSD: ER 8415	I²C fault IC7200 (stereo and NICAM units)	* +14 on MF/sound module * IC7200 * IC7220
OSD: ER 8425	I²C fault IC7213 (NICAM units) I²C fault IC7220 (Stereo units)	* IC7213/IC7220
OSD: ER EEPROM	I²C fault IC7710	* ICC7710
OSD: ER TUNER	I²C fault tuner (stereo and NICAM units)	* Tuner * TS7003
OSD: ER CHROMA	I²C fault IC7309	* supply IC7309 (+9) * IC7309
Flashing LED	Internal fault in µP	* IC7708
OSD: ER BUS	I²C bus blocked	* C2714, C2715

Directions for use

1. Service default mode

The GR2.1 is equipped with a service default mode. The service default mode is a fixed defined mode in which the unit can be placed.

1.1 Mode definition

The definition of the fixed mode in the service default mode is as follows:

- all sound and picture controls are in the central position (with the exception of the volume which is set to low)
- stereo units are tuned to 475.25 MHz
- mono units are tuned to programme 0
- system:
  * PAL BG, PAL/SECAM BG or PAL I for single system units
  * SECAM L for multisystem units.

1.2 Switching on and off

The service default mode is switched on by briefly short-circuiting the pins M33 and M34 (SERVICE) behind the INSTALL key on the carrier panel when switching the unit on with the mains switch. In order to indicate that the unit is in the service default mode, an "S" appears on the screen.
The service default mode can only be switched off by switching the unit to standby. If the unit is switched off and then on again using the mains switch or mains plug, the service default mode remains switched on.

1.3 Operation and extra facilities

In addition to the fact that the unit can be operated normally, in the service default mode two extra functions are available:

- Autostore
  When operating the install key on the local control panel, the unit is tuned to the next transmitter frequency. This frequency is also stored under the selected programme number. Therefore the installation menu cannot be accessed in the service default mode!
- Service menu
  The service menu is activated by first pressing the ◿ key and then at the same time the P+ key on the local control panel. The service menu now appears on the screen.
  The service menu offers the facility to set various options and make a number of picture tube settings. The various components in the service menu are selected using the coloured keys on the remote control. The various components themselves are adjusted using the + and - keys on the remote control.
  The values and options set are immediately stored in the EEPROM.

Note 1:
If the service menu does not appear on the screen and the autostore function does not react, then the "LOCK" function is probably activated.
If the autostore function only does not react, the hotel mode is activated.

Note 2:
If a multisystem unit in the service default mode is to be used with the PAL/SECAM BG system, the "MULTI SYSTEM" option can be temporarily switched off.

2. Hotel mode

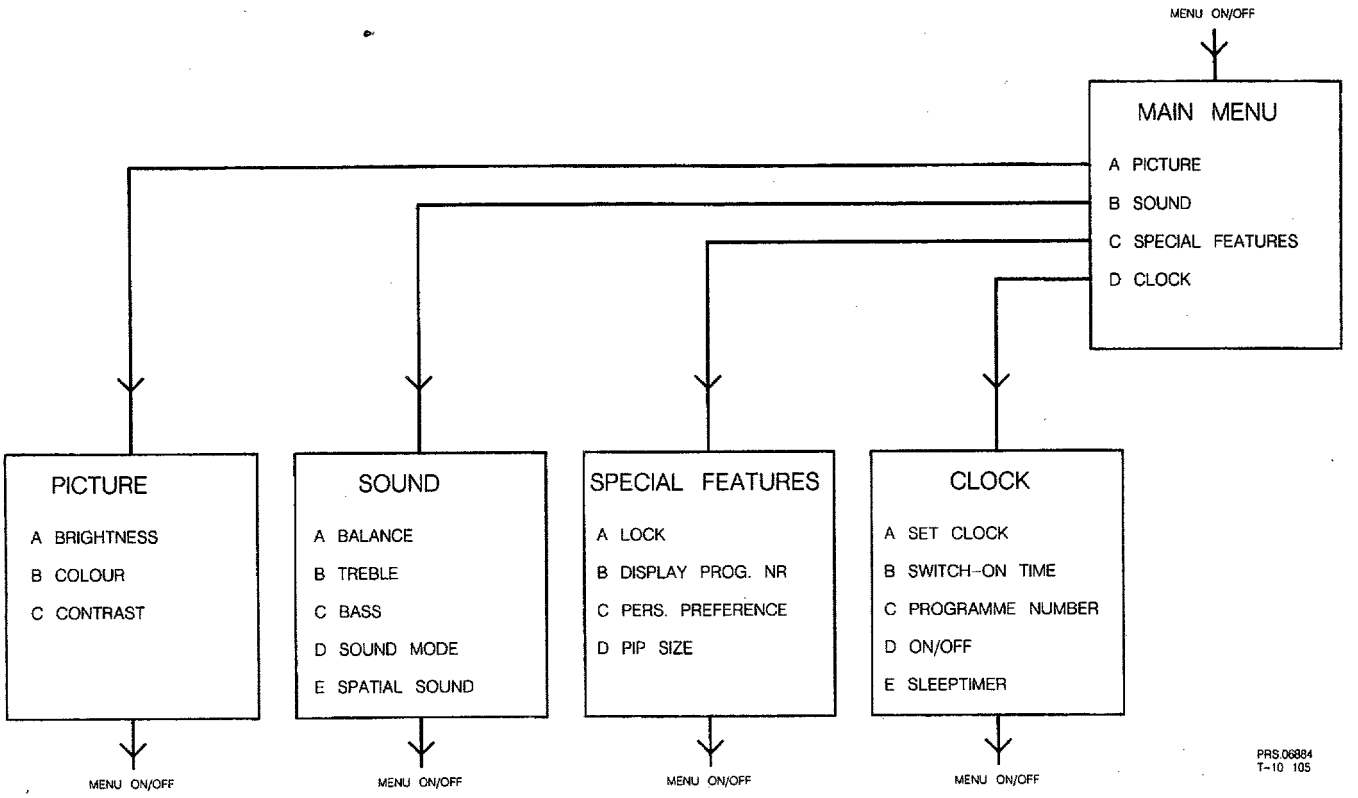
In the hotel mode the volume control is limited to a maximum to be set beforehand and the installation menu cannot be called up.

2.1 Switching the hotel mode on and off

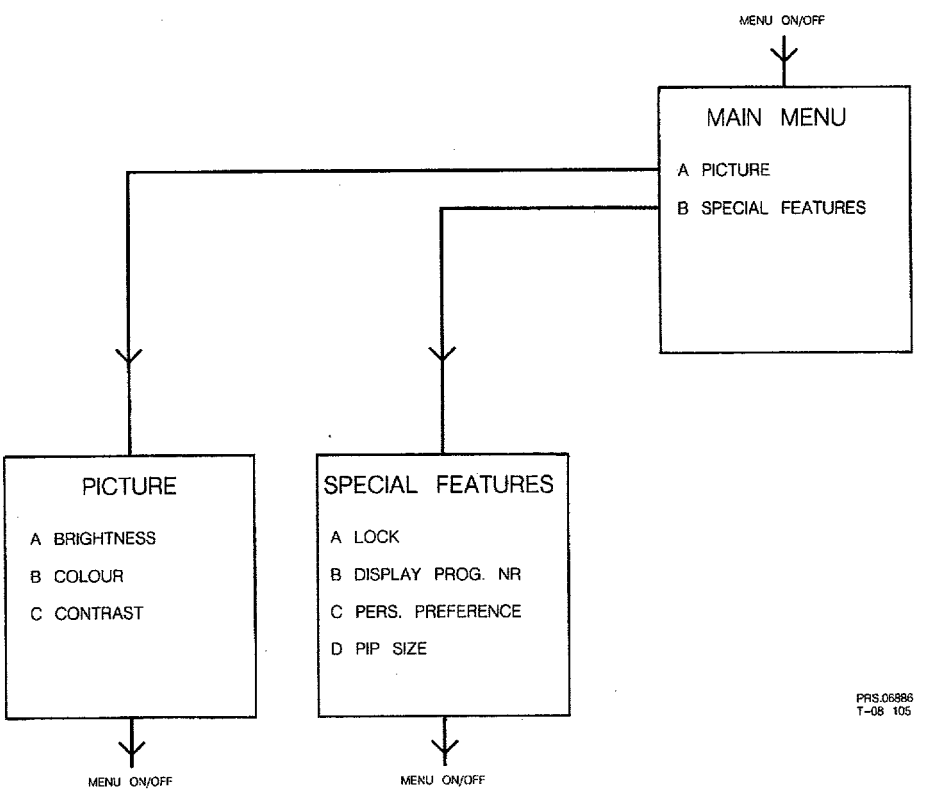
Select programme number 38.
First press ◿ + and keep this depressed while pressing P −.

Survey of menus

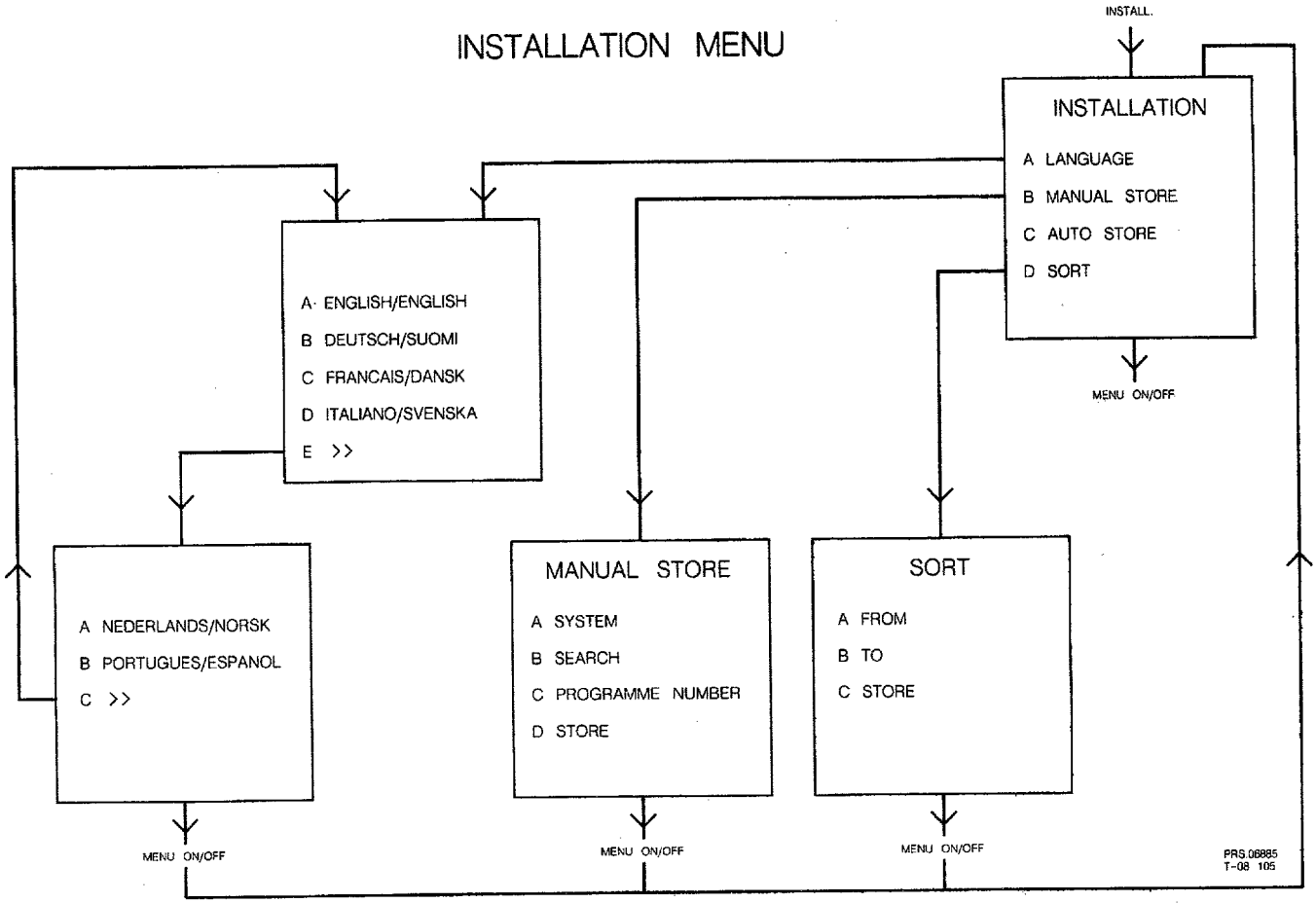
MAIN MENU STEREO



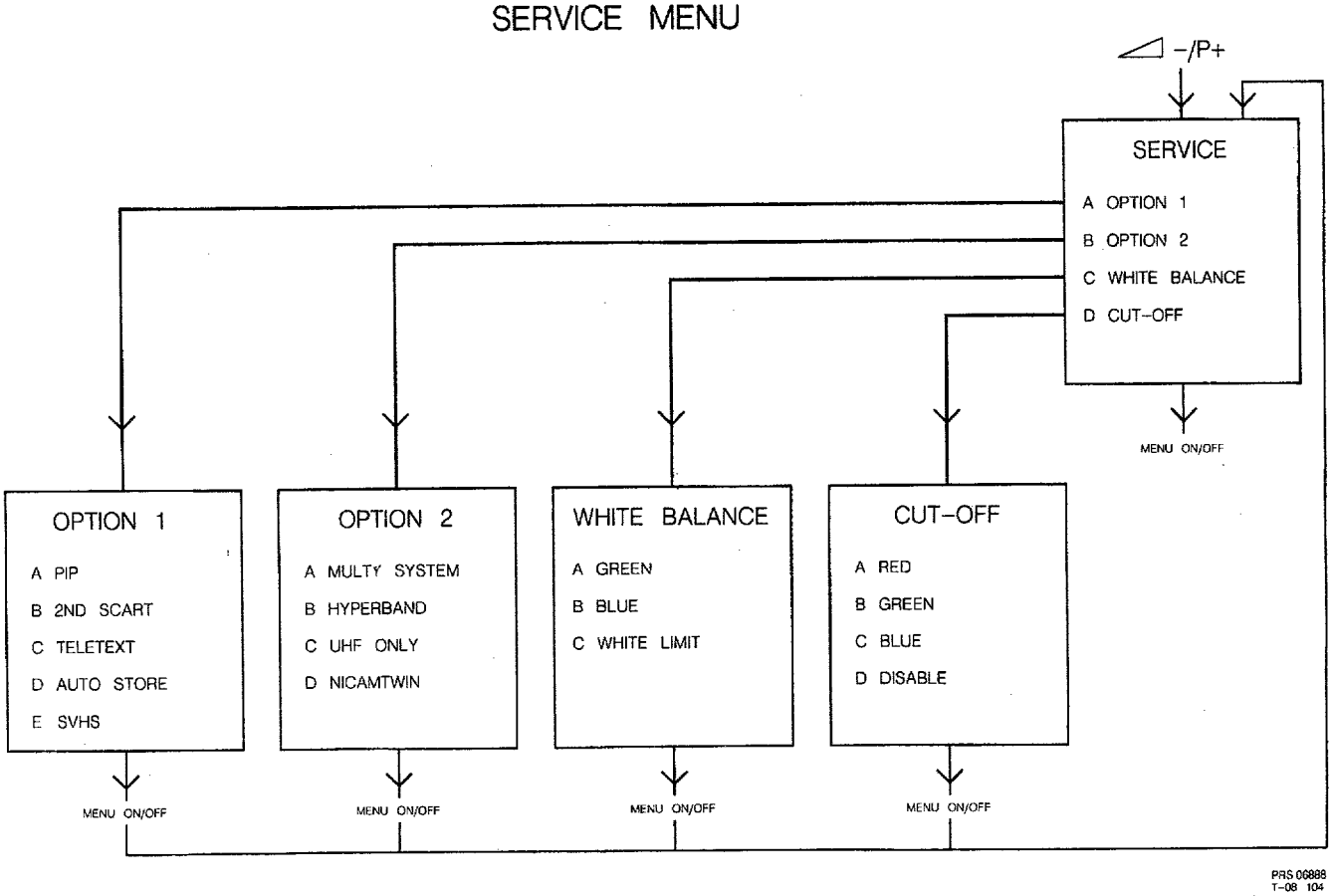
MAIN MENU MONO



INSTALLATION MENU



SERVICE MENU



Carrier panel

Mechanical parts

	4822 404 31174	bracket EURO MOD.
	4822 492 70871	spring (wire)
	4822 492 70143	spring fix. TS7625
	4822 256 91766	LED holder
	4822 276 50354	keyboard 5-fold
	4822 466 30395	shielding IC7708
	4822 256 30274	fuse holder
	4822 320 20126	focus cable

10	4822 265 30389	2p male
11	4822 265 30389	2p male
12	4822 265 30351	5p male
13	4822 265 30378	4p male
14	4822 290 40295	7p male
15	4822 265 40421	6p male
16	4822 264 40207	3p male
17	4822 267 50591	6p male gold
18	4822 264 50148	8p male gold
19	4822 264 40239	3p male
22	4822 267 40666	3p male
23	4822 264 40207	3p male
24	4822 264 40207	3p male
27	4822 265 30351	5p male
28	4822 265 30877	3p male
29	4822 265 41086	9p male,
35	4822 267 20387	SVHS-connector
39	4822 267 31014	headphone socket
47	4822 267 30631	dual cinch connector
49	4822 267 60243	EURO-connector

	4822 290 60626	2p female
	4822 290 40285	3p female
	4822 267 50824	4p female
	4822 265 30275	5p female
	4822 267 30546	6p female
	4822 265 40252	7p female
	4822 267 51084	9p female
	4822 267 50637	10p female

various

1000	4822 210 10405	UV917E/IEC
1000	4822 212 23695	U943/IEC
1000	4822 210 50124	UV916E/IEC
1000	4822 210 10366	U944/IEC
1002	4822 526 10405	ferrite bead for D6640,D6641
1003	4822 212 23667	infra red receiver
1004	4822 526 10538	ferrite bead for D6546
1240	4822 071 51602	fuse T1,6A
1242	4822 071 51602	fuse T1,6A
1300	4822 242 70304	crystal 8,867 238 MHz
1534	4822 071 53151	fuse T315mA
1559	4822 071 51002	fuse T1A
1580	4822 071 51602	fuse T1,6A
1600	4822 070 32002	fuse T2A
1702	4822 242 80238	crystal 4,194 MHz
1702	4822 242 80221	crystal 4,194 304 MHz

2001	4822 124 40195	150µF 20% 16V
2002	5322 122 32838	82nF 10% 63V
2002	4822 122 31797	22nF 10% 63V
2003	4822 122 31784	4,7nF 10% 50V
2003	4822 122 32893	100nF 80% 50V
2004	4822 122 33205	12pF 10% 63V
2008	4822 122 31765	100pF 5% 50V
2231	4822 124 41525	100µF 20% 25V
2232	4822 122 32863	22nF 80% 50V
2233	4822 122 32863	22nF 80% 50V
2234	4822 122 32863	22nF 80% 50V
2235	4822 122 32863	22nF 80% 50V
2236	4822 122 31784	4,7nF 10% 50V
2237	4822 122 32893	100nF 80% 50V
2238	4822 122 32597	6,8nF 10% 63V
2238	4822 122 31784	4,7nF 10% 50V
2239	4822 122 32893	100nF 80% 50V
2240	4822 124 40214	1000µF 20% 25V
2241	4822 122 32893	100nF 80% 50V
2242	4822 124 40214	1000µF 20% 25V
2243	4822 122 32863	22nF 80% 50V
2245	4822 122 32863	22nF 80% 50V
2246	4822 124 41596	22µF 20% 50V
2246	4822 124 41506	47µF 20% 16V
2248	4822 124 40849	330µF 20% 16V
2249	4822 122 32863	22nF 80% 50V
2250	4822 121 42472	10nF 10% 50V
2251	4822 121 42472	10nF 10% 50V
2252	4822 121 51252	470nF 5% 63V
2254	4822 121 51252	470nF 5% 63V
2255	4822 121 51252	470nF 5% 63V
2256	4822 122 32142	270pF 5% 63V
2257	4822 122 32142	270pF 5% 63V
2260	4822 122 32566	3,9nF 10% 63V
2261	4822 122 32566	3,9nF 10% 63V
2262	4822 122 32142	270pF 5% 63V
2263	4822 122 32142	270pF 5% 63V
2264	4822 121 51252	470nF 5% 63V
2265	4822 121 51252	470nF 5% 63V
2300	4822 122 32482	22pF 5% 63V
2301	4822 122 31773	560pF 5% 50V
2303	4822 122 32142	270pF 5% 63V
2304	4822 122 33498	2,7nF 10% 63V
2304	4822 122 31773	560pF 5% 50V
2305	4822 122 32444	33pF 5% 50V
2306	4822 122 31965	220pF 5% 63V
2307	4822 122 31965	220pF 5% 63V
2308	4822 122 32442	10nF 50V
2309	4822 122 32442	10nF 50V
2310	4822 122 32442	10nF 50V
2311	4822 122 33496	100nF 10% 63V
2312	4822 122 32442	10nF 50V
2313	4822 125 50045	20pF
2314	5322 121 42661	330nF 5% 63V
2315	4822 122 32504	15pF 5% 50V
2315	4822 122 33205	12pF 10% 63V
2316	4822 122 31825	27pF 10% 50V
2317	4822 122 33466	82pF 2%
2318	4822 122 32875	100pF 5% 50V
2319	4822 122 31825	27pF 10% 50V
2320	4822 122 32444	33pF 5% 50V
2320	4822 122 31839	82pF 10% 50V
2321	4822 122 31797	22nF 10% 63V
2322	4822 122 31797	22nF 10% 63V
2323	4822 122 32542	47nF 10% 63V
2325	4822 122 32542	47nF 10% 63V
2326	4822 051 10008	0Ω 5% 0,25W
2326	4822 122 33496	100nF 10% 63V
2327	4822 122 32442	10nF 50V
2328	4822 121 41856	22nF 5% 250V
2328	4822 121 42408	220nF 5% 63V
2329	4822 121 42408	220nF 5% 63V
2329	4822 121 41856	22nF 5% 250V
2330	4822 122 31765	100pF 5% 50V
2331	4822 122 31765	100pF 5% 50V
2332	5322 122 31842	330pF 5% 63V
2333	4822 121 42408	220nF 5% 63V
2334	4822 122 31965	220pF 5% 63V
2335	4822 122 31965	220pF 5% 63V
2336	4822 122 31797	22nF 10% 63V
2337	4822 122 31797	22nF 10% 63V
2338	4822 122 31797	22nF 10% 63V
2339	4822 122 33496	100nF 10% 63V
2340	4822 122 31797	22nF 10% 63V
2341	4822 122 31797	22nF 10% 63V
2342	4822 122 33496	100nF 10% 63V
2343	4822 122 33496	100nF 10% 63V
2344	4822 122 33496	100nF 10% 63V
2345	4822 122 31797	22nF 10% 63V
2346	4822 122 31765	100pF 5% 50V
2349	5322 122 31647	1nF 10% 63V
2350	4822 122 31797	22nF 10% 63V
2351	4822 122 31797	22nF 10% 63V
2352	5322 122 31647	1nF 10% 63V
2353	4822 122 33496	100nF 10% 63V
2354	4822 124 40242	1µF 20% 63V
2355	4822 124 40849	330µF 20% 16V
2356	4822 122 31797	22nF 10% 63V
2357	4822 122 31797	22nF 10% 63V
2358	4822 122 31797	22nF 10% 63V
2359	4822 122 31765	100pF 5% 50V
2360	4822 122 33496	100nF 10% 63V
2361	4822 122 33496	100nF 10% 63V
2362	4822 122 33496	100nF 10% 63V
2363	4822 122 31972	39pF 5% 50V
2365	4822 124 40242	1µF 20% 63V
2366	4822 124 41566	3,3µF 20% 50V
2367	4822 124 40435	10µF 20% 50V
2367	4822 124 41596	22µF 20% 50V
2368	4822 122 33205	12pF 10% 63V
2368	4822 122 32504	15pF 5% 50V
2370	4822 121 42408	220nF 5% 63V
2371	4822 122 31825	27pF 10% 50V
2372	4822 122 31825	27pF 10% 50V
2373	4822 122 31825	27pF 10% 50V
2374	4822 122 31772	47pF 5% 50V
2375	4822 122 31765	100pF 5% 50V
2376	4822 122 31765	100pF 5% 50V
2380	4822 122 31766	120pF 5% 50V
2381	4822 122 31766	120pF 5% 50V
2384	4822 122 31765	100pF 5% 50V
2384	4822 051 10008	0Ω 5% 0,25W
2385	4822 122 31765	100pF 5% 50V
2451	4822 122 32442	10nF 50V
2451	4822 122 33496	100nF 10% 63V
2456	4822 124 40242	1µF 20% 63V
2457	4822 122 33496	100nF 10% 63V
2458	4822 121 42937	2,7nF 1% 250V
2459	4822 122 33496	100nF 10% 63V
2460	5322 122 31647	1nF 10% 63V
2460	4822 122 31784	4,7nF 10% 50V
2460	4822 122 32442	10nF 50V
2461	5322 122 31647	1nF 10% 63V
2464	4822 122 33496	100nF 10% 63V
2465	4822 124 40849	330µF 20% 16V
2466	4822 124 41577	4,7µF 20% 50V
2467	4822 122 33496	100nF 10% 63V
2468	4822 124 40242	1µF 20% 63V
2469	4822 124 41596	22µF 20% 50V
2470	4822 122 31772	47pF 5% 50V
2471	5322 121 42661	330nF 5% 63V
2473	5322 121 42661	330nF 5% 63V
2475	4822 122 31797	22nF 10% 63V
2500	4822 122 31965	220pF 5% 63V
2500	4822 122 31727	470pF 5% 63V
2502	4822 124 41596	22µF 20% 50V
2505	4822 122 32542	47nF 10% 63V
2506	4822 124 41747	680µF 20%
2506	4822 124 41334	470µF 20% 35V

Carrier panel (continued)

2507	4822 122 31797	22nF 10% 63V
2509	4822 124 41576	2,2µF 20% 50V
2520	5322 124 41299	68µF 20% 25V
2521	4822 122 32891	68nF 10% 63V
2522	5322 121 42661	330nF 5% 63V
2524	4822 124 21208	4,7µF 20% 50V
2524	4822 124 42167	4,7µF 20% 50V
2526	4822 121 42472	10nF 10% 50V
2526	4822 122 31759	18nF 10%
2528	5322 121 42025	0,22µF 10% 250V
2531	4822 121 43396	120nF 5% 63V
2531	4822 121 42408	220nF 5% 63V
2532	4822 124 40242	1µF 20% 63V
2532	4822 124 41577	4,7µF 20% 50V
2533	4822 124 40242	1µF 20% 63V
2538	4822 121 51256	39nF 10% 50V
2539	4822 124 41525	100µF 20% 25V
2545	4822 126 10202	1,5nF 10% 2kV
2545	4822 122 33707	1,2nF 10% 2kV
2546	5322 121 42523	8,2nF 5% 2kV
2546	5322 121 41603	10nF 5% 2kV
2546	4822 121 43065	7,5nF 5% 2kV
2547	4822 121 40488	22nF 10% 400V
2547	5322 121 44151	33nF 10% 400V
2549	4822 121 42073	390 nF 10% 400V
2549	4822 121 42074	470 nF 10% 400V
2550	4822 121 51527	390nF 5% 250V
2550	4822 121 43148	470nF 10% 2000V
2551	4822 124 41831	1µF 20% 160V
2559	4822 124 41525	100µF 20% 25V
2560	4822 121 51408	33nF 10% 250V
2563	4822 122 10175	2,2nF 10% 50V
2570	4822 124 40764	22µF 100 V
2574	4822 122 10175	2,2nF 10% 50V
2580	4822 124 40214	1000µF 20% 25V
2585	4822 124 40435	10µF 20% 50V
2588	4822 122 31644	2,2nF 10% 63V
2590	5322 121 42498	680nF 5% 63V
2590	5322 121 42498	680nF 5% 63V
2600	4822 124 41531	470nF 10% 250VAC
2605	4822 124 23492	220µF 50% 385V
2605	4822 124 42104	68µF 20% 385V
2607	4822 122 33922	1nF 20% 400V
2611	5322 124 41299	68µF 20% 25V
2617	4822 121 43047	1µF 10% 63V
2620	5322 121 42465	68nF 5% 63V
2625	4822 122 40593	1nF 10% 1kV
2626	4822 122 40594	470pF 10% 1kV
2629	4822 122 31784	4,7nF 10% 50V
2630	4822 124 23418	47µF 200V
2630	4822 124 22349	100µF 160V
2631	4822 124 22349	100µF 160V
2631	4822 124 23418	47µF 200V
2632	4822 126 11382	1nF 10% 1kV
2636	4822 122 31644	2,2nF 10% 63V
2640	4822 124 40214	1000µF 20% 25V
2641	4822 124 40214	1000µF 20% 25V
2646	4822 124 42153	15µF 20% 50V
2649	4822 122 33496	100nF 10% 63V
2650	4822 122 33496	100nF 10% 63V
2652	5322 122 32331	1nF 10% 100V
2653	5322 122 32331	1nF 10% 100V
2658	5322 122 32838	82nF 10% 63V
2660	4822 124 40201	1000µF 20% 16V
2661	4822 124 41506	47µF 20% 16V
2662	4822 122 30107	270pF 2% 100V
2662	5322 122 32056	220pF 2% 100V
2663	5322 122 32344	82pF 2% 100V
2663	4822 122 31081	100pF 2% 100V
2664	4822 124 41576	2,2µF 20% 50V
2670	4822 122 31766	120pF 5% 50V
2671	4822 121 42408	220nF 5% 63V
2675	5322 124 41468	1000µF 20% 40V

2675	4822 124 21215	680µF 20% 40V
2676	5322 122 32331	1nF 10% 100V
2701	4822 122 31765	100pF 5% 50V
2702	4822 122 32442	10nF 50V
2703	4822 121 51252	470nF 5% 63V
2704	4822 122 32542	47nF 10% 63V
2705	4822 122 31766	120pF 5% 50V
2706	5322 124 41299	68µF 20% 25V
2707	4822 124 40242	1µF 20% 63V
2708	4822 122 31766	120pF 5% 50V
2709	4822 122 32083	8,2pF 5% 50V
2710	4822 122 32083	8,2pF 5% 50V
2711	4822 122 31825	27pF 10% 50V
2712	4822 122 31825	27pF 10% 50V
2713	4822 124 41525	100µF 20% 25V
2714	4822 122 31766	120pF 5% 50V
2715	4822 122 31766	120pF 5% 50V
2716	4822 122 33496	100nF 10% 63V
2717	4822 122 31644	2,2nF 10% 63V
2718	4822 122 33496	100nF 10% 63V
2719	4822 124 40242	1µF 20% 63V
2719	5322 121 42386	100nF 5% 63V
2721	4822 122 32442	10nF 50V
2722	4822 121 42007	100nF 10% 100V
2722	4822 122 32893	100nF 80% 50V
2781	4822 122 33496	100nF 10% 63V
2800	4822 124 41506	47µF 20% 16V
2805	4822 122 31772	47pF 5% 50V
2810	4822 122 31784	4,7nF 10% 50V
2875	4822 122 32893	100nF 80% 50V

3001	4822 052 10279	27Ω 5% 0,33W
3002	4822 051 10223	22k 2% 0,25W
3003	4822 051 20222	2k2 5% 0,1W
3004	4822 051 10472	4k7 2% 0,25W
3005	4822 051 10102	1k 2% 0,25W
3006	4822 051 10472	4k7 2% 0,25W
3007	4822 051 10102	1k 2% 0,25W
3008	4822 051 10472	4k7 2% 0,25W
3009	4822 051 10102	1k 2% 0,25W
3010	4822 051 10102	1k 2% 0,25W
3218	4822 116 52228	680Ω 5% 0,5W
3219	4822 116 52228	680Ω 5% 0,5W
3220	4822 051 10392	3k9 2% 0,25W
3221	4822 116 52204	1k 5% 0,5W
3222	4822 116 52234	100k 5% 0,5W
3224	4822 116 52256	2k2 5% 0,5W
3225	4822 051 10272	2k7 2% 0,25W
3226	4822 051 10333	33k 2% 0,25W
3227	4822 051 10333	33k 2% 0,25W
3228	4822 051 10151	150Ω 2% 0,25W
3229	4822 051 10562	5k6 2% 0,25W
3230	4822 116 52257	22k 5% 0,5W
3231	4822 051 10472	4k7 2% 0,25W
3232	4822 051 10101	100Ω 2% 0,25W
3232	4822 051 10008	0Ω 5% 0,25W
3233	4822 051 10103	10k 2% 0,25W
3234	4822 051 10223	22k 2% 0,25W
3235	4822 051 10223	22k 2% 0,25W
3236	4822 051 10562	5k6 2% 0,25W
3236	4822 051 10122	1k2 2% 0,25W
3237	4822 051 10562	5k6 2% 0,25W
3237	4822 051 10122	1k2 2% 0,25W
3238	4822 051 10122	1k2 2% 0,25W
3239	4822 116 52207	1k2 5% 0,5W
3240	4822 052 10828	8Ω2 5% 0,33W
3241	4822 052 10828	8Ω2 5% 0,33W
3242	4822 051 10333	33k 2% 0,25W
3243	4822 051 10333	33k 2% 0,25W
3244	4822 051 10103	10k 2% 0,25W

3245	4822 051 10103	10k 2% 0,25W
3246	4822 050 23301	330Ω 1% 0,6W
3247	4822 116 52175	100Ω 5% 0,5W
3248	4822 050 23301	330Ω 1% 0,6W
3249	4822 116 52193	39Ω 5% 0,5W
3249	4822 116 52175	100Ω 5% 0,5W
3250	4822 116 52204	1k 5% 0,5W
3251	4822 116 52204	1k 5% 0,5W
3253	4822 116 52211	150Ω 5% 0,5W
3254	4822 116 52211	150Ω 5% 0,5W
3255	4822 116 52204	1k 5% 0,5W
3256	4822 116 52204	1k 5% 0,5W
3257	4822 051 10334	330k 2% 0,25W
3258	4822 051 10334	330k 2% 0,25W
3259	4822 051 10334	330k 2% 0,25W
3260	4822 051 10334	330k 2% 0,25W
3261	4822 116 80747	75Ω 5% 0,125W
3262	4822 116 80747	75Ω 5% 0,125W
3263	4822 051 10008	0Ω 5% 0,25W
3263	4822 051 10562	5k6 2% 0,25W
3264	4822 051 10008	0Ω 5% 0,25W
3264	4822 051 10562	5k6 2% 0,25W
3265	4822 050 21008	1Ω 1% 0,6W
3266	4822 050 21008	1Ω 1% 0,6W
3300	4822 051 10562	5k6 2% 0,25W
3301	4822 051 10272	2k7 2% 0,25W
3302	4822 051 20222	2k2 5% 0,1W
3303	4822 051 10332	3k3 2% 0,25W
3303	4822 051 10122	1k2 2% 0,25W
3304	4822 051 10182	1k8 2% 0,25W
3305	4822 051 10431	430Ω 2% 0,25W
3306	4822 051 10103	10k 2% 0,25W
3307	4822 051 10681	680Ω 2% 0,25W
3308	4822 051 10331	330Ω 2% 0,25W
3309	4822 051 10331	330Ω 2% 0,25W
3310	4822 116 52286	5k1 5% 0,5W
3311	4822 051 10391	390Ω 2% 0,25W
3312	4822 100 11677	470Ω 30% lin 0,2W
3313	4822 051 10103	10k 2% 0,25W
3313	4822 051 10332	3k3 2% 0,25W
3314	4822 051 10103	10k 2% 0,25W
3315	4822 051 10911	910Ω 2% 0,25W
3316	4822 051 10105	1M 5% 0,25W
3317	4822 051 20222	2k2 5% 0,1W
3318	4822 051 10472	4k7 2% 0,25W
3323	4822 116 52272	330k 5% 0,5W
3325	4822 051 10271	270Ω 2% 0,25W
3326	4822 051 10271	270Ω 2% 0,25W
3327	4822 050 11202	1k2 1% 0,4W
3328	4822 051 10473	47k 2% 0,25W
3330	4822 051 10109	10Ω 2% 0,25W
3331	4822 051 10109	10Ω 2% 0,25W
3332	4822 050 23901	390Ω 1% 0,6W
3334	4822 050 21809	18Ω 1% 0,6W
3335	4822 116 52184	18Ω 5% 0,5W
3336	4822 052 10189	18Ω 5% 0,33W
3336	4822 052 10279	27Ω 5% 0,33W
3337	4822 052 10189	18Ω 5% 0,33W
3337	4822 052 10279	27Ω 5% 0,33W
3338	4822 116 52204	1k 5% 0,5W
3339	4822 051 10152	1k5 2% 0,25W
3340	4822 116 52204	1k 5% 0,5W
3341	4822 051 10103	10k 2% 0,25W
3342	4822 051 10102	1k 2% 0,25W
3343	4822 051 10104	100k 2% 0,25W
3344	4822 051 10182	1k8 2% 0,25W
3347	4822 116 52219	330Ω 5% 0,5W
3348	4822 116 52219	330Ω 5% 0,5W
3349	4822 116 52219	330Ω 5% 0,5W
3350	4822 116 52204	1k 5% 0,5W
3351	4822 116 52263	2k7 5% 0,5W
3352	4822 116 52263	2k7 5% 0,5W
3353	4822 116 52263	2k7 5% 0,5W

Carrier panel (continued)

3354	4822 051 10221	220Ω 2% 0,25W	3524	4822 051 10683	68k 2% 0,25W	3648	4822 051 10273	27k 2% 0,25W
3357	4822 051 10102	1k 2% 0,25W	3525	4822 100 11678	22k 30% lin 0,2W	3649	4822 050 23309	33Ω 1% 0,6W
3358	4822 051 10331	330Ω 2% 0,25W	3525	4822 100 11676	10k 30% lin 0,2W	3658	4822 052 10688	6Ω8 5 0,33W
3359	4822 051 10331	330Ω 2% 0,25W	3526	4822 051 10823	82k 2% 0,25W	3659	4822 051 10181	180Ω 2% 0,25W
3360	4822 051 10102	1k 2% 0,25W	3526	4822 051 10104	100k 2% 0,25W	3660	4822 051 10101	100Ω 2% 0,25W
3361	4822 051 10102	1k 2% 0,25W	3527	4822 051 10125	1M2 5% 0,25W	3661	4822 051 10361	360Ω 2% 0,25W
3362	4822 051 10472	4k7 2% 0,25W	3527	4822 051 10333	33k 2% 0,25W	3662	4822 051 10221	220Ω 2% 0,25W
3365	4822 116 52245	150k 5% 0,5W	3528	4822 051 20222	2k2 5% 0,1W	3663	4822 051 10472	4k7 2% 0,25W
3365	4822 116 52301	75k 5% 0,5W	3528	4822 051 10681	680Ω 2% 0,25W	3664	4822 051 10272	2k7 2% 0,25W
3366	4822 051 20183	18k 5% 0,1W	3529	4822 051 10228	2Ω2 5% 0,25W	3665	4822 051 10103	10k 2% 0,25W
3367	4822 116 52175	100Ω 5% 0,5W	3530	4822 051 10102	1k 2% 0,25W	3666	4822 051 10102	1k 2% 0,25W
3368	4822 116 52175	100Ω 5% 0,5W	3530	4822 051 10008	0Ω 5% 0,25W	3667	4822 051 10361	360Ω 2% 0,25W
3369	4822 116 52175	100Ω 5% 0,5W	3531	4822 051 10104	100k 2% 0,25W	3668	4822 051 10102	1k 2% 0,25W
3370	4822 051 10332	3k3 2% 0,25W	3531	4822 051 10008	0Ω 5% 0,25W	3669	4822 051 10102	1k 2% 0,25W
3371	4822 051 10332	3k3 2% 0,25W	3532	4822 051 10103	10k 2% 0,25W	3670	4822 051 10303	30k 2% 0,25W
3372	4822 051 10472	4k7 2% 0,25W	3532	4822 051 10153	15k 2% 0,25W	3671	4822 116 52204	1k 5% 0,5W
3373	4822 051 10102	1k 2% 0,25W	3533	4822 051 10822	8k2 2% 0,25W	3672	4822 051 10103	10k 2% 0,25W
3374	4822 050 26803	68k 1% 0,6W	3534	4822 052 10828	8Ω2 5% 0,33W	3673	4822 051 10472	4k7 2% 0,25W
3375	4822 051 10331	330Ω 2% 0,25W	3535	4822 116 52231	820Ω 5% 0,5W	3674	4822 051 10112	1k1 2% 0,25W
3376	4822 051 10331	330Ω 2% 0,25W	3535	4822 116 52243	1k5 5% 0,5W	3675	4822 116 52239	120k 5% 0,5W
3380	4822 051 10101	100Ω 2% 0,25W	3536	4822 051 10822	8k2 2% 0,25W	3676	4822 051 10103	10k 2% 0,25W
3381	4822 051 10101	100Ω 2% 0,25W	3538	4822 116 52251	18k 5% 0,5W	3701	4822 051 10273	27k 2% 0,25W
3394	4822 051 10104	100k 2% 0,25W	3539	4822 053 20684	680k 5% 0,25W	3702	4822 051 10153	15k 2% 0,25W
3395	4822 051 10683	68k 2% 0,25W	3539	4822 053 20434	430k 5% 0,25W	3704	4822 051 10103	10k 2% 0,25W
3450	4822 116 52238	12k 5% 0,5W	3540	4822 051 10399	39Ω 2% 0,25W	3705	4822 051 10102	1k 2% 0,25W
3451	4822 116 52175	100Ω 5% 0,5W	3542	4822 050 28201	820Ω 1% 0,6W	3706	4822 051 10472	4k7 2% 0,25W
3452	4822 116 52175	100Ω 5% 0,5W	3543	4822 051 10101	100Ω 2% 0,25W	3707	4822 051 10223	22k 2% 0,25W
3455	4822 051 10102	1k 2% 0,25W	3545	4822 116 52256	2k2 5% 0,5W	3708	4822 051 10334	330k 2% 0,25W
3456	4822 051 10682	6k8 2% 0,25W	3545	4822 111 70178	120Ω 5% 5W	3710	4822 051 10008	0Ω 5% 0,25W
3457	4822 100 11676	10k 30% lin 0,2W	3545	4822 116 82999	330Ω 5% 5W	3710	4822 051 10243	24k 2% 0,25W
3458	4822 051 10303	30k 2% 0,25W	3546	4822 050 15608	5Ω6 1% 0,4W	3711	4822 116 52244	15k 5% 0,5W
3459	4822 051 10823	82k 2% 0,25W	3549	4822 116 52251	18k 5% 0,5W	3711	4822 116 80176	1Ω 5% 0,5W
3460	4822 051 10333	33k 2% 0,25W	3550	4822 052 10153	15k 5% 0,33W	3712	4822 051 10223	22k 2% 0,25W
3461	4822 100 11682	47k 30% lin 0,2W	3550	4822 116 52251	18k 5% 0,5W	3712	4822 051 10008	0Ω 5% 0,25W
3463	4822 051 20183	18k 5% 0,1W	3551	4822 050 25601	560Ω 1% 0,6W	3713	4822 051 10223	22k 2% 0,25W
3464	4822 051 10123	12k 2% 0,25W	3552	4822 050 25601	560Ω 1% 0,6W	3713	4822 051 10008	0Ω 5% 0,25W
3465	4822 051 10394	390k 2% 0,25W	3553	4822 052 10561	560Ω 5% 0,33W	3714	4822 051 10155	1M5 5% 0,25W
3466	4822 051 10152	1k5 2% 0,25W	3560	4822 116 52254	20k 5% 0,5W	3716	4822 051 10103	10k 2% 0,25W
3467	4822 116 80692	2M2 5% 0,2W	3560	4822 116 52247	16k 5% 0,5W	3717	4822 051 10103	10k 2% 0,25W
3467	4822 050 21205	1M2 1% 0,6W	3560	4822 051 10333	33k 2% 0,25W	3718	4822 116 52215	220Ω 5% 0,5W
3468	4822 051 10682	6k8 2% 0,25W	3570	4822 052 10688	6Ω8 5 0,33W	3719	4822 116 52215	220Ω 5% 0,5W
3469	4822 051 10229	22Ω 2% 0,25W	3582	4822 050 25601	560Ω 1% 0,6W	3720	4822 116 52215	220Ω 5% 0,5W
3470	4822 116 52269	3k3 5% 0,5W	3585	4822 052 10159	15Ω 5% 0,33W	3721	4822 051 10103	10k 2% 0,25W
3471	4822 050 19109	91Ω 1% 0,4W	3588	4822 052 10561	560Ω 5% 0,33W	3722	4822 051 10103	10k 2% 0,25W
3473	4822 116 52265	270k 5% 0,5W	3589	4822 050 24701	470Ω 1% 0,6W	3723	4822 051 10103	10k 2% 0,25W
3474	4822 051 10392	3k9 2% 0,25W	3590	4822 116 52234	100k 5% 0,5W	3724	4822 051 10103	10k 2% 0,25W
3483	4822 051 10479	47Ω 2% 0,25W	3591	4822 051 10474	470k 2% 0,25W	3725	4822 051 10103	10k 2% 0,25W
3485	4822 051 20222	2k2 5% 0,1W	3592	4822 051 10681	680Ω 2% 0,25W	3726	4822 051 10103	10k 2% 0,25W
3501	4822 051 10759	75Ω 2% 0,25W	3603	4822 053 21915	9M1 5% 0,5W	3727	4822 116 52175	100Ω 5% 0,5W
3501	4822 051 10101	100Ω 2% 0,25W	3605	4822 052 10102	1k 5% 0,33W	3728	4822 116 52175	100Ω 5% 0,5W
3502	4822 050 28201	820Ω 1% 0,6W	3606	4822 052 10102	1k 5% 0,33W	3729	4822 051 10911	910Ω 2% 0,25W
3503	4822 052 10108	1Ω 5% 0,33W	3610	4822 052 10159	15Ω 5% 0,33W	3730	4822 051 10221	220Ω 2% 0,25W
3504	4822 100 11684	100Ω 10% 0,1W	3610	4822 052 10688	6Ω8 5 0,33W	3731	4822 051 10103	10k 2% 0,25W
3505	4822 051 10471	470Ω 2% 0,25W	3617	4822 116 52213	180Ω 5% 0,5W	3732	4822 053 11103	10k 5% 2W
3506	4822 116 52245	150k 5% 0,5W	3619	4822 116 52182	15Ω 5% 0,5W	3732	4822 053 11332	3k3 5% 2W
3507	4822 116 52233	10k 5% 0,5W	3620	4822 053 12121	120Ω 5% 3W	3733	4822 116 52283	4k7 5% 0,5W
3507	4822 116 52238	12k 5% 0,5W	3622	4822 053 11479	47Ω 5% 2W	3733	4822 050 23902	3k9 1% 0,6W
3508	4822 051 10228	2Ω2 5% 0,25W	3624	4822 116 52272	330k 5% 0,5W	3734	4822 116 52283	4k7 5% 0,5W
3509	4822 051 10228	2Ω2 5% 0,25W	3625	4822 116 52292	560k 5% 0,5W	3734	4822 050 23902	3k9 1% 0,6W
3510	4822 051 10228	2Ω2 5% 0,25W	3626	4822 053 12361	360Ω 5% 3W	3735	4822 051 10104	100k 2% 0,25W
3511	4822 051 10228	2Ω2 5% 0,25W	3626	4822 113 80565	180Ω 5% 5W	3736	4822 116 52175	100Ω 5% 0,5W
3512	4822 051 10109	10Ω 2% 0,25W	3627	4822 053 12361	360Ω 5% 3W	3737	4822 116 52284	47k 5% 0,5W
3513	4822 050 25601	560Ω 1% 0,6W	3628	4822 051 10334	330k 2% 0,25W	3737	4822 116 52204	1k 5% 0,5W
3514	4822 051 10392	3k9 2% 0,25W	3629	4822 051 10682	6k8 2% 0,25W	3741	4822 051 10123	12k 2% 0,25W
3515	4822 051 10228	2Ω2 5% 0,25W	3631	4822 050 22204	220k 1% 0,6W	3742	4822 051 10332	3k3 2% 0,25W
3516	4822 100 11678	22k 30% lin 0,2W	3631	4822 050 21204	120k 1% 0,6W	3743	4822 051 10472	4k7 2% 0,25W
3517	4822 051 10228	2Ω2 5% 0,25W	3634	4822 116 52269	3k3 5% 0,5W	3747	4822 051 10273	27k 2% 0,25W
3518	4822 051 10101	100Ω 2% 0,25W	3634	4822 116 52263	2k7 5% 0,5W	3748	4822 051 10273	27k 2% 0,25W
3519	4822 051 10228	2Ω2 5% 0,25W	3635	4822 100 11681	1k 30% 0,1W	3749	4822 051 10273	27k 2% 0,25W
3520	4822 116 52211	150Ω 5% 0,5W	3636	4822 051 10224	220k 2% 0,25W	3750	4822 051 10273	27k 2% 0,25W
3521	4822 100 11679	4,7k 30% lin 0,2W	3637	4822 051 10101	100Ω 2% 0,25W	3751	4822 051 10153	15k 2% 0,25W
3522	4822 051 10152	1k5 2% 0,25W	3647	4822 050 23603	36k 1% 0,6W	3752	4822 051 10153	15k 2% 0,25W
3523	4822 051 10228	2Ω2 5% 0,25W	3647	4822 050 23303	33k 1% 0,6W	3753	4822 051 10153	15k 2% 0,25W

Carrier panel (continued)

3754	4822 051 10153	15k 2% 0,25W
3755	4822 051 10008	0Ω 5% 0,25W
3755	4822 051 10101	100Ω 2% 0,25W
3756	4822 051 10101	100Ω 2% 0,25W
3757	4822 051 20222	2k2 5% 0,1W
3758	4822 051 10392	3k9 2% 0,25W
3759	4822 116 52175	100Ω 5% 0,5W
3768	4822 116 52235	1M 5% 0,5W
3770	4822 051 10473	47k 2% 0,25W
3771	4822 116 52251	18k 5% 0,5W
3772	4822 051 10392	3k9 2% 0,25W
3774	4822 051 10103	10k 2% 0,25W
3775	4822 051 10101	100Ω 2% 0,25W
3776	4822 051 10562	5k6 2% 0,25W
3777	4822 116 52264	27k 5% 0,5W
3778	4822 051 10563	56k 2% 0,25W
3779	4822 116 52233	10k 5% 0,5W
3780	4822 051 10103	10k 2% 0,25W
3781	4822 051 10472	4k7 2% 0,25W
3850	4822 116 52189	30Ω 5% 0,5W
3851	4822 116 80747	75Ω 5% 0,125W
3852	4822 116 80747	75Ω 5% 0,125W
3853	4822 116 80747	75Ω 5% 0,125W
3854	4822 116 80747	75Ω 5% 0,125W
3855	4822 116 52201	75Ω 5% 0,5W
3856	4822 051 10101	100Ω 2% 0,25W
3857	4822 051 10331	330Ω 2% 0,25W
3858	4822 051 10331	330Ω 2% 0,25W
3859	4822 051 10331	330Ω 2% 0,25W
3860	4822 116 80176	1Ω 5% 0,5W
3861	4822 051 10562	5k6 2% 0,25W
3866	4822 051 10103	10k 2% 0,25W
3867	4822 116 80747	75Ω 5% 0,125W
3868	4822 116 80747	75Ω 5% 0,125W
3869	4822 116 52175	100Ω 5% 0,5W
3871	4822 116 52175	100Ω 5% 0,5W
3874	4822 050 21008	1Ω 1% 0,6W
3875	4822 051 10102	1k 2% 0,25W
3880	4822 116 52204	1k 5% 0,5W
3881	4822 116 52224	470Ω 5% 0,5W
3882	4822 116 52224	470Ω 5% 0,5W
3883	4822 051 10104	100k 2% 0,25W
3884	4822 050 21004	100k 1% 0,6W
3885	4822 051 10223	22k 2% 0,25W
3886	4822 051 10472	4k7 2% 0,25W
3887	4822 116 52289	5k6 5% 0,5W
3888	4822 116 52207	1k2 5% 0,5W
3890	4822 051 10103	10k 2% 0,25W
4221	4822 051 10008	0Ω 5% 0,25W
4222	4822 051 10008	0Ω 5% 0,25W
4223	4822 051 10008	0Ω 5% 0,25W
4224	4822 051 10008	0Ω 5% 0,25W
4233	4822 051 10008	0Ω 5% 0,25W
4237	4822 051 10008	0Ω 5% 0,25W
4239	4822 051 10008	0Ω 5% 0,25W
4300	4822 051 10008	0Ω 5% 0,25W
4301	4822 051 10008	0Ω 5% 0,25W
4302	4822 051 10008	0Ω 5% 0,25W
4303	4822 051 10008	0Ω 5% 0,25W
4304	4822 051 10008	0Ω 5% 0,25W
4305	4822 051 10008	0Ω 5% 0,25W
4306	4822 051 10008	0Ω 5% 0,25W
4307	4822 051 10008	0Ω 5% 0,25W
4308	4822 051 10008	0Ω 5% 0,25W
4310	4822 051 10008	0Ω 5% 0,25W
4312	4822 051 10008	0Ω 5% 0,25W
4314	4822 051 10008	0Ω 5% 0,25W
4315	4822 051 10008	0Ω 5% 0,25W
4316	4822 051 10008	0Ω 5% 0,25W
4317	4822 051 10008	0Ω 5% 0,25W
4318	4822 051 10008	0Ω 5% 0,25W
4319	4822 051 10152	1k5 2% 0,25W
4320	4822 051 10008	0Ω 5% 0,25W

4321	4822 051 10008	0Ω 5% 0,25W
4322	4822 051 10008	0Ω 5% 0,25W
4323	4822 051 10008	0Ω 5% 0,25W
4324	4822 051 10008	0Ω 5% 0,25W
4325	4822 051 10008	0Ω 5% 0,25W
4326	4822 051 10008	0Ω 5% 0,25W
4329	4822 051 10008	0Ω 5% 0,25W
4450	4822 051 10008	0Ω 5% 0,25W
4451	4822 051 10008	0Ω 5% 0,25W
4452	4822 051 10008	0Ω 5% 0,25W
4500	4822 051 10008	0Ω 5% 0,25W
4501	4822 051 10008	0Ω 5% 0,25W
4502	4822 051 10008	0Ω 5% 0,25W
4503	4822 051 10008	0Ω 5% 0,25W
4504	4822 051 10008	0Ω 5% 0,25W
4505	4822 051 10008	0Ω 5% 0,25W
4506	4822 051 10008	0Ω 5% 0,25W
4507	4822 051 10008	0Ω 5% 0,25W
4602	4822 051 10008	0Ω 5% 0,25W
4603	4822 051 10008	0Ω 5% 0,25W
4604	4822 051 10008	0Ω 5% 0,25W
4605	4822 051 10008	0Ω 5% 0,25W
4700	4822 051 10008	0Ω 5% 0,25W
4701	4822 051 10008	0Ω 5% 0,25W
4704	4822 051 10008	0Ω 5% 0,25W
4706	4822 051 10008	0Ω 5% 0,25W
4707	4822 051 10008	0Ω 5% 0,25W
4708	4822 051 10008	0Ω 5% 0,25W
4709	4822 051 10008	0Ω 5% 0,25W
4710	4822 051 10008	0Ω 5% 0,25W
4711	4822 051 10008	0Ω 5% 0,25W
4712	4822 051 10008	0Ω 5% 0,25W
4713	4822 051 10008	0Ω 5% 0,25W
4714	4822 051 10008	0Ω 5% 0,25W
4715	4822 051 10008	0Ω 5% 0,25W
4716	4822 051 10008	0Ω 5% 0,25W
4718	4822 051 10008	0Ω 5% 0,25W
4720	4822 051 10008	0Ω 5% 0,25W
4721	4822 051 10008	0Ω 5% 0,25W
4723	4822 051 10008	0Ω 5% 0,25W
4850	4822 051 10008	0Ω 5% 0,25W
4851	4822 051 10008	0Ω 5% 0,25W
4852	4822 051 10008	0Ω 5% 0,25W
4853	4822 051 10008	0Ω 5% 0,25W
4854	4822 051 10008	0Ω 5% 0,25W
4855	4822 051 10008	0Ω 5% 0,25W
4856	4822 051 10008	0Ω 5% 0,25W
4857	4822 051 10008	0Ω 5% 0,25W
4858	4822 051 10008	0Ω 5% 0,25W
4859	4822 051 10008	0Ω 5% 0,25W
4862	4822 051 10008	0Ω 5% 0,25W
4863	4822 051 10008	0Ω 5% 0,25W
4865	4822 051 10008	0Ω 5% 0,25W
4866	4822 051 10008	0Ω 5% 0,25W
4867	4822 051 10008	0Ω 5% 0,25W

5240	4822 158 10551	27µH
5242	4822 158 10551	27µH
5301	4822 157 63075	7,95µH 8%
5303	4822 157 53906	47µH
5303	5322 157 51687	39µH 10%
5304	4822 157 63074	7,6µH
5306	4822 320 40081	470 NSEC
5530	4822 152 20559	390µH 10%
5534	4822 158 10728	coil 25"/28"
5534	4822 157 62771	coil 21"
5541	4822 157 63078	line driver
5545	4822 140 10417	L.O.T. 25"/28" non BL.L.
5545	4822 140 10414	L.O.T. 25"/28" BL.L.
5545	4822 140 10418	L.O.T. 21"

5549	4822 157 53069	coil balance
5554	4822 157 63079	AT4042/97 25"/28"
5554	4822 157 63161	AT4042/90G 21"
5582	5322 157 52539	15µH
5588	4822 157 52505	33µH 10%
5605	4822 157 53995	100µH 10%
5606	4822 157 53995	100µH 10%
5619	4822 156 21125	3,9µH 10% 25"/28"
5619	4822 157 51235	4µH 7 10% 21"
5621	4822 157 60412	150µH 10% 25"/28"
5621	4822 157 53903	180µH 10% 21"
5625	4822 148 81159	S.O.P.S. trafo 21"
5625	4822 148 81168	S.O.P.S. trafo 25"/28"
5630	4822 157 60387	1µH
5631	4822 158 10551	27µH
5632	4822 158 10551	27µH
5661	4822 152 20678	33µH 10%
5701	4822 157 52843	56µH 5%
5703	4822 157 52279	33µH 10%
5801	4822 157 53001	27µH 10%

6245	4822 130 30621	1N4148
6246	4822 130 81139	LLZ-C3V3
6247	4822 130 81139	LLZ-C3V3
6248	4822 130 80446	LL4148
6249	4822 130 80446	LL4148
6300	4822 130 80446	LL4148
6302	4822 130 34382	BZX79-C8V2
6303	4822 130 34382	BZX79-C8V2
6310	4822 130 80954	LLZ-C5V6
6315	4822 130 80446	LL4148
6316	4822 130 30621	1N4148
6317	4822 130 30621	1N4148
6318	4822 130 80446	LL4148
6367	4822 130 80884	LLZ-C5V1
6464	4822 130 81015	LLZ-C10
6465	4822 130 61219	BZX79-F10
6465	4822 130 80239	BZX79-F8V2
6465	4822 130 34281	BZX79-F15
6503	4822 130 42489	BYD33G
6504	4822 130 80446	LL4148
6518	4822 130 80446	LL4148
6519	4822 130 80446	LL4148
6546	4822 130 41275	BY228/20
6547	4822 130 41602	BYW95C/20
6548	4822 130 30621	1N4148
6549	4822 130 42488	BYD33D
6551	4822 130 42489	BYD33G
6560	4822 130 80446	LL4148
6561	4822 130 34383	BZX79-C47
6563	4822 130 80915	BYD74C
6570	4822 130 42488	BYD33D
6571	4822 130 42488	BYD33D
6580	4822 130 82512	BYV29F-400
6580	4822 130 32961	BYV28-200
6585	4822 130 42488	BYD33D
6590	4822 130 81141	LLZ-C43
6591	4822 130 30621	1N4148
6592	4822 130 80928	BZX79-C30
6610	4822 130 80446	LL4148
6611	4822 130 34268	LLZ-F16
6612	4822 130 30621	1N4148
6617	4822 130 31456	BZV85-C5V1
6621	4822 130 42488	BYD33D
6622	4822 130 30621	1N4148
6630	4822 130 33531	BY229F-600
6630	4822 130 81175	BYD74G
6640	4822 130 80914	BYD74B
6641	4822 130 80914	BYD74B
6646	4822 130 42488	BYD33D

Carrier panel (continued)

6648	4822 130 34488	BZX79-F12
6648	4822 130 61219	BZX79-F10
6649	4822 130 30621	1N4148
6660	4822 130 30621	1N4148
6661	4822 130 42488	BYD33D
6662	4822 130 80905	LLZ-F5V1
6663	4822 130 34281	BZX79-F15
6664	4822 130 61219	BZX79-F10
6664	4822 130 30862	BZX79-F9V1
6665	4822 130 80883	LLZ-C4V7
6666	4822 130 80887	LLZ-C36
6666	4822 130 81141	LLZ-C43
6669	4822 130 80446	LL4148
6670	4822 130 20245	SF0Ω5D43
6675	4822 130 80914	BYD74B
6675	4822 130 42488	BYD33D
6705	4822 130 80905	LLZ-F5V1
6707	4822 209 72895	TLUV5320
6708	4822 130 81145	LLZ-F2V4
6709	4822 130 82037	HZT33

7000	5322 130 42012	BC858A
7001	5322 130 42012	BC858A
7002	5322 130 42012	BC858A
7003	4822 130 42133	BC817
7240	4822 209 73253	TDA2613/N1
7240	4822 209 73853	TDA1521/N4
7243	5322 130 42012	BC858
7244	4822 130 42513	BC858C
7245	5322 130 42136	BC848C
7246	5322 130 42136	BC848C
7247	5322 130 42136	BC848C
7248	4822 130 61207	BC848
7249	4822 130 61207	BC848
7301	4822 130 61207	BC848
7302	5322 130 42012	BC858
7303	4822 130 61207	BC848
7305	4822 209 70019	TDA4510/V2/S8
7306	4822 209 63109	TDA4650/V3
7307	4822 209 63108	TDA4660/V2
7308	4822 209 71512	TDA4565/V6
7309	4822 209 63733	TDA4680/V5
7310	4822 130 61207	BC848
7311	5322 209 10576	4053B
7312	5322 209 10576	4053B
7341	4822 130 61207	BC848
7370	4822 130 61207	BC848
7371	4822 130 61207	BC848
7372	4822 130 61207	BC848
7373	4822 130 61207	BC848
7374	4822 130 61207	BC848
7455	5322 130 42012	BC858
7470	4822 209 63297	TDA2579B/N1
7500	4822 130 41344	BC337-40
7502	4822 130 60775	2SD1266P
7503	4822 130 61236	BD234
7504	4822 130 61207	BC848
7505	5322 130 42012	BC858
7530	4822 130 61207	BC848
7533	4822 130 60111	2SA1359
7534	4822 130 44283	BC636
7540	4822 130 41344	BC337-40
7545	4822 130 61265	BU508AF
7546	4822 130 62677	BUT11AF/1
7591	5322 130 42012	BC858
7600	4822 209 63735	TDA8385/N2
7614	4822 209 63732	CNR50
7625	4822 130 43919	BUT12AF
7661	5322 130 44921	BD943
7663	4822 130 42513	BC858C
7671	4822 130 61207	BC848

7672	4822 130 61207	BC848
7701	5322 130 42012	BC858A
7702	4822 130 61207	BC848
7703	4822 130 61207	BC848
7704	4822 130 61207	BC848
7705	4822 130 61207	BC848
7706	4822 130 61207	BC848
7707	4822 130 61207	BC848
7708	4822 209 63872	TMP47C1237N-U105 GR2VSL1
7708	4822 209 63947	TMP47C1237N-U107 GR2VSL2
7708	4822 209 63861	TMP47C1637N-U208 GR2FSL2
7708	4822 209 63875	TMP47C1637N-U211 GR2FSL1
7709	4822 130 61207	BC848
7710	4822 209 62098	ST24C02CP
7711	4822 130 61207	BC848
7712	4822 130 61207	BC848
7805	4822 130 61207	BC848
7810	4822 130 61207	BC848

Mains module

	4822 212 23664	mains mod.
10	4822 265 30389	2P MALE
32	4822 265 30389	2P MALE
33	4822 265 30877	3P MALE

2601	4822 121 40487	100n 400V

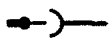
3601	4822 116 40211	PTC/NTC
3607	4822 050 23901	390Ω

5600	4822 157 63073	filter

6602	4822 130 31933	1N5061
6603	4822 130 31933	1N5061
6604	4822 130 31933	1N5061
6605	4822 130 31933	1N5061

CRT modules

	4822 212 23675	CRT MOD. 25"/28" BL.L.
	4822 212 23676	CRT MOD. 25"/28" NON BL.L.
	4822 212 23678	CRT MOD. 21"



19	4822 265 30378	4P MALE
20	4822 290 40295	7P MALE
21	4822 255 70261	CRT SOCKET 25"/28"
21	4822 255 70251	CRT SOCKET 21"

2301	4822 122 31961	68pF 5% 63V
2301	4822 122 31825	27pF 10% 50V
2301	4822 122 32482	22pF 5% 63V
2331	4822 122 31774	56pF 5% 50V
2331	4822 122 31825	27pF 10% 50V
2331	4822 122 32482	22pF 5% 63V
2361	4822 122 31774	56pF 5% 50V
2361	4822 122 32482	22pF 5% 63V
2361	4822 122 31825	27pF 10% 50V
2391	4822 121 43878	27pF 2% 500V
2392	4822 124 40246	4,7µF 20% 63V
2392	4822 124 41577	4,7µF 20% 50V
2411	4822 124 40849	330µF 20% 16V
2412	4822 122 33496	100nF 10% 63V
2421	4822 122 31772	47pF 5% 50V
2431	4822 121 41689	100nF 10% 250V
2432	4822 124 41506	47µF 20% 16V
2433	5322 121 50885	33nF 5% 1kV
2434	5322 122 32334	220pF 10% 100V

3301	4822 051 10131	130Ω 2% 0,25W
3302	4822 051 10152	1k5 2% 0,25W
3302	4822 051 10162	1k6 2% 0,25W
3302	4822 051 10362	3k6 2% 0,25W
3303	4822 051 10272	2k7 2% 0,25W
3304	4822 116 52239	120k 5% 0,5W
3305	4822 116 52283	4k7 5% 0,5W
3306	4822 116 52283	4k7 5% 0,5W
3307	4822 116 52283	4k7 5% 0,5W
3308	4822 051 10479	47Ω 2% 0,25W
3308	4822 051 10118	1Ω1 5% 0,25W
3310	4822 116 52219	330Ω 5% 0,5W
3311	4822 053 12123	12k 5% 3W
3311	4822 053 12153	15k 5% 3W
3312	4822 052 10271	270Ω 5% 0,33W
3313	4822 052 10271	270Ω 5% 0,33W
3314	4822 050 21502	1k5 1% 0,6W
3315	4822 051 10124	120k 2% 0,25W
3316	4822 051 10124	120k 2% 0,25W
3331	4822 051 10131	130Ω 2% 0,25W
3332	4822 051 10152	1k5 2% 0,25W
3332	4822 051 10162	1k6 2% 0,25W
3332	4822 051 10362	3k6 2% 0,25W
3333	4822 051 10272	2k7 2% 0,25W
3334	4822 116 52239	120k 5% 0,5W
3335	4822 116 52283	4k7 5% 0,5W
3336	4822 116 52283	4k7 5% 0,5W
3337	4822 116 52283	4k7 5% 0,5W
3339	4822 051 10479	47Ω 2% 0,25W
3339	4822 051 10118	1Ω1 5% 0,25W
3340	4822 116 52219	330Ω 5% 0,5W
3341	4822 053 12153	15k 5% 3W
3342	4822 052 10271	270Ω 5% 0,33W
3343	4822 052 10271	270Ω 5% 0,33W
3344	4822 050 21502	1k5 1% 0,6W

3345	4822 051 10681	680Ω 2% 0,25W
3361	4822 116 52208	130Ω 5% 0,5W
3361	4822 051 10131	130Ω 2% 0,25W
3362	4822 051 10152	1k5 2% 0,25W
3362	4822 051 10162	1k6 2% 0,25W
3362	4822 051 10362	3k6 2% 0,25W
3363	4822 051 10272	2k7 2% 0,25W
3364	4822 116 52239	120k 5% 0,5W
3365	4822 116 52283	4k7 5% 0,5W
3366	4822 116 52283	4k7 5% 0,5W
3367	4822 116 52283	4k7 5% 0,5W
3368	4822 051 10479	47Ω 2% 0,25W
3369	4822 051 10479	47Ω 2% 0,25W
3369	4822 051 10118	1Ω1 5% 0,25W
3370	4822 116 52219	330Ω 5% 0,5W
3371	4822 053 12103	10k 5% 3W
3371	4822 053 12153	15k 5% 3W
3372	4822 052 10271	270Ω 5% 0,33W
3373	4822 052 10271	270Ω 5% 0,33W
3374	4822 050 21502	1k5 1% 0,6W
3391	4822 051 10104	100k 2% 0,25W
3392	4822 051 10104	100k 2% 0,25W
3393	4822 116 52234	100k 5% 0,5W
3393	4822 050 28203	82k 1% 0,6W
3394	4822 051 10333	33k 2% 0,25W
3394	4822 116 52267	30k 5% 0,5W
3395	4822 051 10683	68k 2% 0,25W
3396	4822 051 10124	120k 2% 0,25W
3397	4822 051 10124	120k 2% 0,25W
3411	4822 051 10182	1k8 2% 0,25W
3411	4822 116 52243	1k5 5% 0,5W
3412	4822 116 52224	470Ω 5% 0,5W
3413	4822 116 52218	300Ω 5% 0,5W
3413	4822 051 10221	220Ω 2% 0,25W
3414	4822 051 10519	51Ω 2% 0,25W
3414	4822 051 10479	47Ω 2% 0,25W
3415	4822 116 52218	300Ω 5% 0,5W
3415	4822 051 10221	220Ω 2% 0,25W
3421	4822 051 10104	100k 2% 0,25W
3422	4822 051 10682	6k8 2% 0,25W
3422	4822 050 26802	6k8 1% 0,6W
3423	4822 051 10474	470k 2% 0,25W
3423	4822 116 52285	470k 5% 0,5W
3431	4822 052 10181	180Ω 5% 0,33W
3432	4822 052 10399	39Ω 5% 0,33W
3433	4822 052 10108	1Ω 5% 0,33W
3434	4822 050 21502	1k5 1% 0,6W
3435	4822 050 21502	1k5 1% 0,6W
3436	4822 050 21805	1M8 1% 0,6W
4000	4822 051 10008	0Ω 5% 0,25W
4001	4822 051 10008	0Ω 5% 0,25W
4002	4822 051 10008	0Ω 5% 0,25W
4003	4822 051 10008	0Ω 5% 0,25W
4005	4822 051 10008	0Ω 5% 0,25W
4006	4822 051 10008	0Ω 5% 0,25W
4007	4822 051 10008	0Ω 5% 0,25W
4008	4822 051 10008	0Ω 5% 0,25W
4009	4822 051 10008	0Ω 5% 0,25W
4010	4822 051 10008	0Ω 5% 0,25W
4011	4822 051 10008	0Ω 5% 0,25W
4012	4822 051 10008	0Ω 5% 0,25W

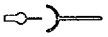
5401	4822 156 20915	33µH
5401	4822 158 10563	82µH 7,5%

6301	4822 130 80877	BAV103
6331	4822 130 80877	BAV103
6345	4822 130 81015	BZV55-F10
6361	4822 130 80877	BAV103
6411	4822 130 80879	BZV55-C3V0
6421	4822 130 80446	LL4148

7301	4822 130 41773	BF869
7301	4822 130 41782	BF422
7303	4822 130 61207	BC848
7304	4822 130 41782	BF422
7304	4822 130 41782	BF422
7305	4822 130 41646	BF423
7332	4822 130 41773	BF869
7332	4822 130 41782	BF422
7333	4822 130 61207	BC848
7334	4822 130 41782	BF422
7335	4822 130 41646	BF423
7345	5322 130 42012	BC858A
7362	4822 130 41773	BF869
7362	4822 130 41782	BF422
7363	4822 130 61207	BC848
7364	4822 130 41782	BF422
7365	4822 130 41646	BF423
7391	4822 130 41646	BF423
7411	4822 130 40938	BC548
7421	5322 130 41983	BC858B

Euro module

1006	4822 212 23666	EURO MODULE



23	4822 265 40442	10P MALE
26	4822 265 40442	10P MALE
30	4822 265 41086	9P MALE
32	4822 267 40666	3P MALE
48	4822 267 60247	EURO CONNECTOR

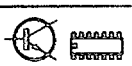
2800	4822 121 51252	470nF 5% 63V
2801	4822 121 51252	470nF 5% 63V
2802	4822 121 51252	470nF 5% 63V
2803	4822 121 51252	470nF 5% 63V
2804	4822 122 33496	100nF 10% 63V
2805	4822 122 33496	100nF 10% 63V
2806	4822 122 33496	100nF 10% 63V
2807	4822 124 41506	47µF 20% 16V
2810	4822 122 32142	270pF 5% 63V
2811	4822 122 32142	270pF 5% 63V
2812	4822 122 33496	100nF 10% 63V
2813	4822 122 32542	47nF 10% 63V
2814	4822 122 31759	18nF
2815	4822 122 33496	100nF 10% 63V
2816	4822 122 33496	100nF 10% 63V
2817	4822 122 33496	100nF 10% 63V
2818	4822 122 33496	100nF 10% 63V
2819	4822 124 41525	100µF 20% 25V
2820	5322 121 42386	100nF 5% 63V
2821	4822 124 40433	47µF 20% 25V
2822	4822 124 40435	10µF 20% 50V
2823	4822 122 33496	100nF 10% 63V
2831	4822 124 40272	33µF 20% 16V
2833	4822 122 33496	100nF 10% 63V
2834	4822 122 33496	100nF 10% 63V

3800	4822 116 52189	30Ω 5% 0,5W
3801	4822 116 80747	75Ω 5% 0,125W
3802	4822 116 52211	150Ω 5% 0,5W
3803	4822 116 52211	150Ω 5% 0,5W
3804	4822 116 52204	1k 5% 0,5W
3805	4822 116 52204	1k 5% 0,5W
3806	4822 051 10334	330k 2% 0,25W
3807	4822 051 10334	330k 2% 0,25W
3808	4822 051 10334	330k 2% 0,25W
3809	4822 051 10334	330k 2% 0,25W
3810	4822 051 10622	6k2 2% 0,25W
3811	4822 051 10182	1k8 2% 0,25W
3812	4822 051 10331	330Ω 2% 0,25W
3813	4822 116 52201	75Ω 5% 0,5W
3814	4822 051 10152	1k5 2% 0,25W
3815	4822 051 10472	4k7 2% 0,25W
3816	4822 116 52296	6k8 5% 0,5W
3819	4822 051 10331	330Ω 2% 0,25W
3820	4822 051 10331	330Ω 2% 0,25W
3821	4822 051 10331	330Ω 2% 0,25W
3822	4822 051 10331	330Ω 2% 0,25W
3823	4822 051 10561	560Ω 2% 0,25W
3824	4822 051 10151	150Ω 2% 0,25W
3825	4822 051 10223	22k 2% 0,25W
3826	4822 051 10102	1k 2% 0,25W
3827	4822 051 10339	33Ω 2% 0,25W
3828	4822 051 10562	5k6 2% 0,25W
3829	4822 051 10821	820Ω 2% 0,25W
3830	4822 051 10683	68k 2% 0,25W
3831	4822 051 10123	12k 2% 0,25W
3833	4822 051 10279	27Ω 2% 0,25W

3834	4822 051 10279	27Ω 2% 0,25W
3835	4822 051 10221	220Ω 2% 0,25W
3836	4822 051 10102	1k 2% 0,25W
3837	4822 052 10278	2Ω7 5% 0,33W
3838	4822 116 80747	75Ω 5% 0,125W
4851	4822 051 10008	0Ω 5% 0,25W
4852	4822 051 10008	0Ω 5% 0,25W
4854	4822 051 10008	0Ω 5% 0,25W
4855	4822 051 10008	0Ω 5% 0,25W
4856	4822 051 10008	0Ω 5% 0,25W
4858	4822 051 10008	0Ω 5% 0,25W

5800	4822 157 51462	10µH

6800	4822 130 80954	LLZ-C5V6
6801	4822 130 80446	LL4148
6802	4822 130 80446	LL4148
6803	4822 130 30621	1N4148



7800	5322 130 44921	BD943
7801	5322 209 10576	4053B
7802	5322 209 10576	4053B
7820	4822 130 61207	BC848
7821	5322 130 42136	BC848C
7822	5322 130 42012	BC858
7823	4822 130 61207	BC848
7824	4822 130 61207	BC848

Mono IF/sound module

	4822 212 23688	IF MOD. MULTI
	4822 212 23689	IF MOD. PAL/SECAM BG
	4822 212 23694	IF MOD. PAL I

various

1010	4822 242 72212	OFWG3950
1010	4822 242 72374	OFWG1961
1010	4822 242 70936	OFWJ1952
1042	4822 242 72211	TPS 5,5MHz
1043	4822 153 30025	6MHz
1102	4822 242 70714	SFT5,5MA
1103	4822 242 71841	SFT6,0MA

2011	4822 124 40435	10µF 20% 50V
2012	4822 124 41577	4,7µF 20% 50V
2013	4822 122 31784	4,7nF 10% 50V
2014	4822 122 31784	4,7nF 10% 50V
2014	4822 122 31797	22nF 10% 63V
2015	5322 121 42498	680nF 5% 63V
2016	4822 122 31784	4,7nF 10% 50V
2017	4822 122 33496	100nF 10% 63V
2018	4822 121 51252	470nF 5% 63V
2019	4822 122 31784	4,7nF 10% 50V
2020	4822 122 33205	12pF 10% 63V
2021	4822 122 33205	12pF 10% 63V
2022	4822 122 33472	22pF 2%
2025	4822 122 31784	4,7nF 10% 50V
2035	4822 122 32507	6,8pF 5% 50V
2036	4822 122 31766	120pF 5% 50V
2037	4822 122 31766	120pF 5% 50V
2038	4822 122 31784	4,7nF 10% 50V
2039	4822 122 32504	15pF 5% 50V
2040	4822 122 31784	4,7nF 10% 50V
2041	4822 122 31784	4,7nF 10% 50V
2042	4822 122 33205	12pF 10% 63V
2044	4822 122 31797	22nF 10% 63V
2047	4822 122 33496	100nF 10% 63V
2048	4822 124 41506	47µF 20% 16V
2049	4822 122 33496	100nF 10% 63V
2050	4822 124 40849	330µF 20% 16V
2055	4822 122 31972	39pF 5% 50V
2056	4822 124 40435	10µF 20% 50V
2057	4822 122 31981	33nF ±0,5pF 50V
2058	4822 122 31797	22nF 10% 63V
2059	4822 124 41566	3,3µF 20% 50V
2060	4822 122 31797	22nF 10% 63V
2100	4822 122 33205	12pF 10% 63V
2101	4822 122 33473	27pF 2%
2102	4822 122 32507	6,8pF 5% 50V
2104	4822 122 33474	47pF 2%
2105	4822 122 33465	39pF 2%
2106	4822 122 31792	1,5pF 10% 50V
2107	4822 122 33465	39pF 2%
2108	4822 122 31784	4,7nF 10% 50V
2109	4822 122 33473	27pF 2%
2110	5322 126 10514	0,47pF 5% 63V
2111	4822 122 31784	4,7nF 10% 50V
2113	4822 124 41596	22µF 20% 50V
2114	4822 122 31784	4,7nF 10% 50V
2115	4822 124 41577	4,7µF 20% 50V
2116	4822 124 40435	10µF 20% 50V
2117	4822 124 41576	2,2µF 20% 50V
2118	4822 124 40432	1500µF 20% 25V
2124	4822 122 32442	10nF 50V
2125	4822 124 40195	150µF 20% 16V
2126	4822 121 43898	8,2nF 10% 50V
2127	5322 121 42661	330nF 5% 63V
2129	5322 121 42661	330nF 5% 63V
2130	5322 121 42661	330nF 5% 63V
2132	4822 122 31797	22nF 10% 63V

Mono IF/sound module (continued)

2133	4822 122 31797	22nF 10% 63V
2134	4822 124 41596	22µF 20% 50V
2135	4822 121 42408	220nF 5% 63V
2136	5322 121 42661	330nF 5% 63V
2137	4822 126 11381	820pF 2%
2137	4822 122 31746	1000pF 5% 50V
2141	4822 124 41577	4,7µF 20% 50V
2143	4822 122 31797	22nF 10% 63V
2150	4822 121 42408	220nF 5% 63V
2151	4822 124 40195	150µF 20% 16V

3012	4822 051 10562	5k6 2% 0,25W
3013	4822 051 10273	27k 2% 0,25W
3014	4822 051 10823	82k 2% 0,25W
3015	4822 051 10104	100k 2% 0,25W
3015	4822 051 10473	47k 2% 0,25W
3016	4822 100 11163	100k 30% LIN 0,1W
3017	4822 051 10823	82k 2% 0,25W
3019	4822 051 10473	47k 2% 0,25W
3020	4822 051 10223	22k 2% 0,25W
3020	4822 051 10273	27k 2% 0,25W
3021	4822 051 10273	27k 2% 0,25W
3021	4822 051 20183	18k 5% 0,1W
3022	4822 051 10151	150Ω 2% 0,25W
3022	4822 051 10008	0Ω 5% 0,25W
3024	4822 051 20222	2k2 5% 0,1W
3025	4822 051 10562	5k6 2% 0,25W
3030	4822 051 10223	22k 2% 0,25W
3031	4822 051 10474	470k 2% 0,25W
3036	4822 051 10472	4k7 2% 0,25W
3037	4822 051 10392	3k9 2% 0,25W
3038	4822 051 10472	4k7 2% 0,25W
3039	4822 051 10392	3k9 2% 0,25W
3040	4822 051 10472	4k7 2% 0,25W
3041	4822 051 10221	220Ω 2% 0,25W
3042	4822 051 10101	100Ω 2% 0,25W
3042	4822 051 10221	220Ω 2% 0,25W
3043	4822 116 52175	100Ω 5% 0,5W
3044	4822 051 10102	1k 2% 0,25W
3044	4822 051 10271	270Ω 2% 0,25W
3046	4822 051 10681	680Ω 2% 0,25W
3047	4822 051 10822	8k2 2% 0,25W
3048	4822 100 11683	2k 30% LIN 0,2W
3049	4822 051 20183	18k 5% 0,1W
3050	4822 051 10272	2k7 2% 0,25W
3051	4822 051 10563	56k 2% 0,25W
3052	4822 051 10471	470Ω 2% 0,25W
3052	4822 051 10561	560Ω 2% 0,25W
3055	4822 051 10103	10k 2% 0,25W
3056	4822 051 10471	470Ω 2% 0,25W
3058	4822 051 10682	6k8 2% 0,25W
3060	4822 051 10471	470Ω 2% 0,25W
3061	4822 051 10124	120k 2% 0,25W
3062	4822 051 10563	56k 2% 0,25W
3063	4822 051 10272	2k7 2% 0,25W
3064	4822 051 10563	56k 2% 0,25W
3065	4822 051 10223	22k 2% 0,25W
3066	4822 051 10824	820k 2% 0,25W
3067	4822 051 10331	330Ω 2% 0,25W
3068	4822 051 10152	1k5 2% 0,25W
3080	4822 051 10102	1k 2% 0,25W
3080	4822 051 20222	2k2 5% 0,1W
3080	4822 051 10332	3k3 2% 0,25W
3100	4822 051 10104	100k 2% 0,25W
3101	4822 051 10562	5k6 2% 0,25W
3102	4822 051 20222	2k2 5% 0,1W
3103	4822 051 10104	100k 2% 0,25W
3104	4822 051 10479	47Ω 2% 0,25W
3105	4822 053 11271	270Ω 5% 2W
3107	4822 051 10151	150Ω 2% 0,25W
3108	4822 051 10333	33k 2% 0,25W
3109	4822 051 10223	22k 2% 0,25W
3112	4822 051 10472	4k7 2% 0,25W
3114	4822 051 10472	4k7 2% 0,25W
3114	4822 051 10182	1k8 2% 0,25W
3116	4822 116 52263	2k7 5% 0,5W
3117	4822 051 10104	100k 2% 0,25W
3118	4822 051 10472	4k7 2% 0,25W
3118	4822 051 20222	2k2 5% 0,1W
3119	4822 051 10472	4k7 2% 0,25W
3120	4822 051 10472	4k7 2% 0,25W
3121	4822 051 10104	100k 2% 0,25W
3124	4822 051 10103	10k 2% 0,25W
3125	4822 051 10103	10k 2% 0,25W
3126	4822 051 10153	15k 2% 0,25W
3127	4822 051 10153	15k 2% 0,25W
3129	4822 051 10822	8k2 2% 0,25W
3130	4822 051 10682	6k8 2% 0,25W
3131	4822 051 10102	1k 2% 0,25W
3132	4822 051 10392	3k9 2% 0,25W
3140	4822 051 10153	15k 2% 0,25W
3141	4822 051 10392	3k9 2% 0,25W
3142	4822 051 10273	27k 2% 0,25W
3143	4822 051 10182	1k8 2% 0,25W
3144	4822 051 10182	1k8 2% 0,25W
4010	4822 051 10008	0Ω 5% 0,25W
4011	4822 051 10008	0Ω 5% 0,25W
4012	4822 051 10008	0Ω 5% 0,25W
4013	4822 051 10008	0Ω 5% 0,25W
4014	4822 051 10008	0Ω 5% 0,25W
4015	4822 051 10008	0Ω 5% 0,25W
4016	4822 051 10008	0Ω 5% 0,25W
4018	4822 051 10008	0Ω 5% 0,25W
4019	4822 051 10008	0Ω 5% 0,25W
4020	4822 051 10008	0Ω 5% 0,25W
4021	4822 051 10008	0Ω 5% 0,25W
4100	4822 051 10008	0Ω 5% 0,25W

5005	4822 157 53539	0,27µH 5%
5010	4822 157 63081	0,56µH 20%
5035	4822 157 53534	0,34µH 5%
5036	4822 157 53609	0,36µH 5%
5037	4822 157 53537	1,35µH 5%
5038	4822 157 63076	1,2µH 5%
5039	4822 157 52983	22µH
5041	4822 157 52983	22µH
5041	4822 157 53001	27µH 10%
5042	4822 157 53634	5,6µH 10%
5042	4822 152 20677	10µH
5100	4822 157 53538	0,75µH 5%
5101	4822 157 53535	0,36µH 5%
5102	4822 157 53536	0,34µH 5%
5105	4822 157 52511	0,83µH

6005	4822 130 80888	BA682
6037	4822 130 80888	BA682
6038	4822 130 80888	BA682
6039	4822 130 30621	1N4148
6040	4822 130 80446	BAS32L
6041	4822 130 80446	BAS32L
6042	4822 130 80446	BAS32L
6043	4822 130 80446	BAS32L
6101	4822 130 80888	BA682
6102	4822 130 80888	BA682
6103	4822 130 80888	BA682
6104	4822 130 80888	BA682
6108	4822 130 80888	BA682
6112	4822 130 80884	LLZ-C5V1

7000	4822 209 72812	TDA2549/C4
7030	5322 130 42012	BC858
7031	4822 130 61207	BC848
7035	4822 130 44121	BC338
7040	5322 130 42012	BC858A
7041	4822 130 61207	BC848
7100	4822 209 63105	TDA3843/V2
7101	4822 209 63217	TDA3827/V2
7102	4822 130 61207	BC848
7103	5322 130 42136	BC848C
7104	5322 130 41982	BC848B

Stereo IF/sound module

	4822 212 23663	IF MOD. MULTI
	4822 212 23687	IF MOD. NON MULTI

various

1010	4822 242 80205	OFWK3261
1010	4822 242 72554	OFWG3254
1042	4822 242 72211	TPS 5,5MW
1101	4822 242 70485	SFT5,74MA
1102	4822 242 71713	SFE6,0MBF
1103	4822 242 70714	SFT5,5MA
1200	4822 242 80208	10 MHz

2011	4822 124 41506	47µF 20% 16V
2012	4822 124 41577	4,7µF 20% 50V
2013	4822 122 31784	4,7nF 10% 50V
2014	4822 122 31797	22nF 10% 63V
2015	5322 121 42498	680nF 5% 63V
2016	4822 122 31784	4,7nF 10% 50V
2017	4822 122 33496	100nF 10% 63V
2018	4822 121 51252	470nF 5% 63V
2035	4822 122 32506	5,6pF 5% 50V
2035	4822 051 10472	4k7 2% 0,25W
2036	4822 122 31784	4,7nF 10% 50V
2037	4822 122 31784	4,7nF 10% 50V
2038	4822 122 33496	100nF 10% 63V
2039	4822 122 32083	8,2pF 5% 50V
2039	4822 051 10682	6k8 2% 0,25W
2040	4822 122 31784	4,7nF 10% 50V
2041	4822 122 31784	4,7nF 10% 50V
2042	4822 122 33205	12pF 10% 63V
2044	4822 122 31797	22nF 10% 63V
2047	4822 122 33496	100nF 10% 63V
2048	4822 124 41506	47µF 20% 16V
2049	4822 122 33496	100nF 10% 63V
2050	4822 124 40849	330µF 20% 16V
2051	4822 122 33496	100nF 10% 63V
2055	4822 122 31972	39pF 5% 50V
2056	4822 124 40435	10µF 20% 50V
2057	4822 122 31981	33nF 5% 50V
2058	4822 122 31797	22nF 10% 63V
2059	4822 124 41407	0,47µF 20% 63V
2100	4822 122 33205	12pF 10% 63V
2101	4822 122 33473	27pF 2%
2102	4822 122 32507	6,8pF 5% 50V
2104	4822 122 33465	39pF 2%
2105	4822 126 11379	33pF 2%
2106	4822 122 31792	1,5pF 10% 50V
2107	4822 122 33465	39pF 2%
2108	4822 122 31784	4,7nF 10% 50V
2109	4822 122 33473	27pF 2%
2110	4822 122 32507	6,8pF 5% 50V
2111	4822 122 31784	4,7nF 10% 50V
2112	4822 122 32505	2,7pF 5% 50V
2113	4822 124 40435	10µF 20% 50V
2114	4822 122 32442	10nF 50V
2115	4822 124 41509	33µF 20% 35V
2117	4822 124 41576	2,2µF 20% 50V
2118	4822 124 41576	2,2µF 20% 50V
2119	4822 122 31797	22nF 10% 63V
2120	4822 124 41576	2,2µF 20% 50V
2122	4822 122 33496	100nF 10% 63V
2123	4822 124 41577	4,7µF 20% 50V
2123	4822 124 40242	1µF 20% 63V
2124	4822 124 41576	2,2µF 20% 50V
2125	4822 122 10527	910pF 2% NPO 50V
2126	4822 122 31784	4,7nF 10% 50V
2127	4822 126 11381	820pF 2% NPO
2127	4822 122 31746	1000pF 5% 50V
2128	4822 126 11381	820pF 2% NPO
2129	4822 122 33476	220pF 2% 50V
2130	4822 124 40195	150µF 20% 16V
2133	4822 122 31797	22nF 10% 63V
2200	4822 121 51252	470nF 5% 63V
2201	4822 121 51252	470nF 5% 63V
2202	4822 121 51252	470nF 5% 63V
2203	4822 122 31916	5,6nF 10% 63V
2204	4822 121 42408	220nF 5% 63V
2204	4822 121 42408	220nF 5% 63V
2205	4822 122 32893	100nF 80% 50V
2206	4822 121 51252	470nF 5% 63V
2207	4822 121 51252	470nF 5% 63V
2208	4822 124 41509	33µF 20% 35V
2209	4822 124 41509	33µF 20% 35V
2210	4822 122 32893	100nF 80% 50V
2211	4822 124 40198	470µF 20% 16V
2212	4822 124 40435	10µF 20% 50V
2213	4822 122 31782	15000pF 10% 50V
2214	4822 122 31782	15000pF 10% 50V
2215	4822 122 31981	33nF ±0,5pF 50V
2216	4822 122 31916	5,6nF 10% 63V
2217	4822 122 31981	33nF ±0,5pF 50V
2218	4822 122 31916	5,6nF 10% 63V
2219	4822 124 41577	4,7µF 20% 50V
2220	4822 124 41577	4,7µF 20% 50V
2221	4822 124 41577	4,7µF 20% 50V
2222	4822 124 41643	100µF 20% 16V

3012	4822 051 10562	5k6 2% 0,25W
3013	4822 051 10273	27k 2% 0,25W
3014	4822 051 10823	82k 2% 0,25W
3015	4822 116 52234	100k 5% 0,5W
3016	4822 100 11163	100k 30% LIN 0,1W
3017	4822 051 10823	82k 2% 0,25W
3019	4822 051 10473	47k 2% 0,25W
3020	4822 051 10273	27k 2% 0,25W
3021	4822 051 20183	18k 5% 0,1W
3030	4822 051 10223	22k 2% 0,25W
3031	4822 051 10474	470k 2% 0,25W
3036	4822 051 10472	4k7 2% 0,25W
3037	4822 051 10392	3k9 2% 0,25W
3038	4822 051 10472	4k7 2% 0,25W
3039	4822 051 10472	4k7 2% 0,25W
3040	4822 051 10472	4k7 2% 0,25W
3041	4822 051 10221	220Ω 2% 0,25W
3042	4822 051 10151	150Ω 2% 0,25W
3042	4822 116 90536	120Ω 1% 0,125W
3043	4822 116 52175	100Ω 5% 0,5W
3044	4822 051 10102	1k 2% 0,25W
3044	4822 051 10271	270Ω 2% 0,25W
3046	4822 116 52228	680Ω 5% 0,5W
3047	4822 051 10822	8k2 2% 0,25W
3048	4822 100 11683	2k 30% LIN 0,2W
3049	4822 051 20183	18k 5% 0,1W
3050	4822 051 10272	2k7 2% 0,25W
3051	4822 051 10563	56k 2% 0,25W
3052	4822 051 10102	1k 2% 0,25W
3055	4822 051 10103	10k 2% 0,25W
3056	4822 051 10471	470Ω 2% 0,25W
3060	4822 051 10471	470Ω 2% 0,25W
3061	4822 051 10124	120k 2% 0,25W
3062	4822 051 10563	56k 2% 0,25W
3063	4822 051 10272	2k7 2% 0,25W
3064	4822 051 10224	220k 2% 0,25W
3065	4822 051 10472	4k7 2% 0,25W
3065	4822 051 10124	120k 2% 0,25W
3066	4822 051 10824	820k 2% 0,25W
3070	4822 051 10822	8k2 2% 0,25W
3100	4822 051 10104	100k 2% 0,25W
3101	4822 051 10562	5k6 2% 0,25W
3102	4822 051 20222	2k2 5% 0,1W
3103	4822 051 10104	100k 2% 0,25W
3105	4822 053 11121	120Ω 5% 2W
3106	4822 051 10561	560Ω 2% 0,25W
3107	4822 051 10102	1k 2% 0,25W
3108	4822 051 10561	560Ω 2% 0,25W
3109	4822 051 10562	5k6 2% 0,25W
3110	4822 051 10562	5k6 2% 0,25W
3112	4822 051 10562	5k6 2% 0,25W
3113	4822 051 10562	5k6 2% 0,25W
3115	4822 051 10331	330Ω 2% 0,25W
3117	4822 051 10561	560Ω 2% 0,25W
3117	4822 051 10681	680Ω 2% 0,25W
3119	4822 051 10562	5k6 2% 0,25W
3120	4822 051 10562	5k6 2% 0,25W
3121	4822 051 10562	5k6 2% 0,25W
3122	4822 051 10122	1k2 2% 0,25W
3123	4822 051 10561	560Ω 2% 0,25W
3124	4822 051 20222	2k2 5% 0,1W
3125	4822 051 10102	1k 2% 0,25W
3126	4822 051 10102	1k 2% 0,25W
3127	4822 051 10152	1k5 2% 0,25W
3128	4822 051 10182	1k8 2% 0,25W
3200	4822 051 10331	330Ω 2% 0,25W
3201	4822 051 10331	330Ω 2% 0,25W
3202	4822 051 10563	56k 2% 0,25W
3203	4822 051 10563	56k 2% 0,25W
3204	4822 100 11676	10k 30% LIN 0,2W
3205	4822 052 10229	22Ω 5% 0,33W
3206	4822 051 10478	4Ω7 5% 0,25W
3207	4822 051 10273	27k 2% 0,25W
3208	4822 051 10272	2k7 2% 0,25W
3209	4822 051 10333	33k 2% 0,25W
3210	4822 116 52204	1k 5% 0,5W
3211	4822 051 10101	100Ω 2% 0,25W
3213	4822 116 52233	10k 5% 0,5W
3214	4822 051 10102	1k 2% 0,25W
4010	4822 051 10008	0Ω 5% 0,25W
4011	4822 051 10008	0Ω 5% 0,25W
4012	4822 051 10008	0Ω 5% 0,25W
4014	4822 051 10008	0Ω 5% 0,25W
4015	4822 051 10008	0Ω 5% 0,25W
4018	4822 051 10008	0Ω 5% 0,25W
4019	4822 051 10008	0Ω 5% 0,25W
4020	4822 051 10008	0Ω 5% 0,25W
4021	4822 051 10008	0Ω 5% 0,25W
4040	4822 051 10008	0Ω 5% 0,25W
4041	4822 051 10008	0Ω 5% 0,25W
4042	4822 051 10008	0Ω 5% 0,25W
4100	4822 051 10008	0Ω 5% 0,25W
4101	4822 051 10008	0Ω 5% 0,25W
4102	4822 051 10008	0Ω 5% 0,25W
4103	4822 051 10008	0Ω 5% 0,25W
4104	4822 051 10008	0Ω 5% 0,25W
4105	4822 051 10008	0Ω 5% 0,25W
4107	4822 051 10008	0Ω 5% 0,25W
4108	4822 051 10008	0Ω 5% 0,25W
4201	4822 051 10008	0Ω 5% 0,25W
4204	4822 051 10008	0Ω 5% 0,25W
4205	4822 051 10008	0Ω 5% 0,25W

5010	4822 157 63081	0,56µH 20%
5010	4822 157 53302	1µH 20%
5035	4822 157 53534	0,34µH 5%
5036	4822 157 53609	0,36µH 5%
5037	4822 157 53537	1,35µH 5%
5038	4822 157 63076	1,2µH 5%
5039	4822 152 20678	33µH 10%
5042	4822 157 62767	8,2µH 10%
5042	4822 157 53634	5,6µH 10%
5100	4822 157 53538	0,75µH 5%
5101	4822 157 53535	0,36µH 5%
5102	4822 157 53536	0,34µH 5%

Stereo IF/sound module (cont.)

5103	4822 157 52511	0,83µH
5104	4822 157 63077	0,25µH 5%
5105	4822 157 52511	0,83µH

6037	4822 130 80888	BA682
6038	4822 130 80888	BA682
6039	4822 130 30621	1N4148
6040	4822 130 80446	BAS32L
6041	4822 130 80446	BAS32L
6042	4822 130 80446	BAS32L
6043	4822 130 80446	BAS32L
6101	4822 130 80888	BA682
6102	4822 130 80888	BA682
6103	4822 130 80888	BA682
6104	4822 130 80888	BA682
6106	4822 130 80888	BA682
6107	4822 130 80888	BA682
6108	4822 130 80888	BA682
6109	4822 130 80446	LL4148

7000	4822 209 72812	TDA2549/C4
7030	5322 130 42012	BC858
7031	4822 130 61207	BC848
7035	4822 130 44121	BC338
7040	5322 130 42012	BC858A
7100	4822 209 63059	TDA3856/V3
7101	4822 209 63784	TDA3857/V3
7102	4822 130 61207	BC848
7103	5322 130 42012	BC858
7104	4822 130 61207	BC848
7200	4822 209 63294	TDA8417/V1
7220	4822 209 63734	TDA8425/V7
7232	5322 130 41982	BC848B

NICAM IF/sound module

	4822 212 23692	IF MOD. PAL BG
	4822 212 23691	IF MOD. PAL I

various

1010	4822 242 72554	OFWG3254
1010	4822 242 72553	OFWJ3251
1042	4822 242 72211	TPS 5,5MHz
1042	4822 153 30025	6MHz
1100	4822 242 70485	SFT5,74MA
1105	4822 242 70714	SFT5,5MA
1105	4822 242 71713	SFE6,0MBF
1116	4822 242 72301	TH316BQM-2080QDAF
1116	4822 242 72303	TH316BQM-2110QDAF
1125	4822 242 72302	5,850 MHz
1125	4822 242 72347	6,552 MHz
1141	4822 242 72304	5,824 MHz
1191	4822 253 10064	FUSE 0,4A
1200	4822 242 80208	10 MHz

2011	4822 124 41506	47µF 20% 16V
2012	4822 124 41577	4,7µF 20% 50V
2013	4822 122 31797	22nF 10% 63V
2014	4822 122 31797	22nF 10% 63V
2015	5322 121 42498	680nF 5% 63V
2016	4822 122 31784	4,7nF 10% 50V
2017	4822 122 33496	100nF 10% 63V
2042	4822 122 33205	12pF 10% 63V
2044	4822 122 31797	22nF 10% 63V
2047	4822 122 33496	100nF 10% 63V
2049	4822 122 33496	100nF 10% 63V
2050	4822 124 40849	330µF 20% 16V
2100	4822 124 40242	1µF 20% 63V
2101	4822 122 31746	1000pF 5% 50V
2102	4822 122 31746	1000pF 5% 50V
2102	4822 122 32765	820pF 10% 63V
2104	4822 122 31784	4,7nF 10% 50V
2106	4822 124 41576	2,2µF 20% 50V
2107	4822 124 41576	2,2µF 20% 50V
2108	4822 122 32862	10nF 80% 50V
2109	4822 124 41509	33µF 20% 35V
2110	4822 122 32893	100nF 80% 50V
2116	5322 122 31647	1nF 10% 63V
2119	4822 124 40198	470µF 20% 16V
2120	4822 124 41407	0,47µF 20% 63V
2121	4822 124 41407	0,47µF 20% 63V
2122	4822 122 32862	10nF 80% 50V
2123	4822 122 31774	56pF 5% 50V
2124	4822 125 50045	20pF
2125	4822 122 33205	12pF 10% 63V
2126	4822 122 31769	18pF 5% 50V
2127	4822 124 41407	0,47µF 20% 63V
2128	4822 122 32862	10nF 80% 50V
2129	4822 122 31965	220pF 5% 63V
2130	4822 122 31965	220pF 5% 63V
2131	4822 122 32862	10nF 80% 50V
2132	4822 122 32862	10nF 80% 50V
2133	4822 122 32893	100nF 80% 50V
2134	4822 122 32893	100nF 80% 50V
2135	4822 122 32893	100nF 80% 50V
2136	4822 122 32893	100nF 80% 50V
2137	4822 122 32862	10nF 80% 50V
2138	4822 122 32862	10nF 80% 50V
2139	4822 124 41407	0,47µF 20% 63V
2140	4822 122 31774	56pF 5% 50V
2141	4822 122 31769	18pF 5% 50V
2142	4822 122 32444	33pF 5% 50V
2143	4822 122 32504	15pF 5% 50V
2144	4822 122 32862	10nF 80% 50V
2145	4822 124 41506	47µF 20% 16V
2146	4822 122 32504	15pF 5% 50V
2147	4822 122 32504	15pF 5% 50V
2148	4822 122 33496	100nF 10% 63V
2150	4822 122 32893	100nF 80% 50V
2151	4822 122 31772	47pF 5% 50V
2153	4822 122 32862	10nF 80% 50V
2154	4822 122 31972	39pF 5% 50V
2155	4822 125 50045	20pF
2162	4822 122 32893	100nF 80% 50V
2168	4822 122 33496	100nF 10% 63V
2169	4822 124 41506	47µF 20% 16V
2170	4822 122 31759	18nF
2170	4822 122 32597	6,8nF 10% 63V
2171	4822 122 33608	39nF 10% 63V
2171	4822 122 31782	15000pF 10% 50V
2173	4822 122 31773	560pF 5% 50V
2174	4822 122 33498	2,7nF 10% 63V
2175	4822 122 32999	2,2N 5% NPO
2176	4822 121 51252	470nF 5% 63V
2177	4822 122 32863	22nF 80% 50V
2180	4822 122 31759	18nF
2180	4822 122 32597	6,8nF 10% 63V
2181	4822 122 33608	39nF 10% 63V
2181	4822 122 31782	15000pF 10% 50V
2183	4822 122 31773	560pF 5% 50V
2184	4822 122 33498	2,7nF 10% 63V
2185	4822 122 32999	2,2N 5% NPO
2186	4822 121 51252	470nF 5% 63V
2187	4822 122 32863	22nF 80% 50V
2188	4822 124 41506	47µF 20% 16V
2189	4822 122 32863	22nF 80% 50V
2190	4822 122 32893	100nF 80% 50V
2191	4822 124 41643	100µF 20% 16V
2192	4822 122 32893	100nF 80% 50V
2193	4822 124 40849	330µF 20% 16V
2194	4822 122 32893	100nF 80% 50V
2195	4822 124 41506	47µF 20% 16V
2196	4822 122 32862	10nF 80% 50V
2197	4822 124 41506	47µF 20% 16V
2198	4822 121 51252	470nF 5% 63V
2200	4822 121 51252	470nF 5% 63V
2201	4822 121 51252	470nF 5% 63V
2202	4822 122 31766	120pF 5% 50V
2203	4822 124 41509	33µF 20% 35V
2204	4822 124 41509	33µF 20% 35V
2205	4822 122 32893	100nF 80% 50V
2207	4822 121 51252	470nF 5% 63V
2209	4822 121 51252	470nF 5% 63V
2210	4822 124 41577	4,7µF 20% 50V
2211	4822 121 42408	220nF 5% 63V
2212	4822 122 31916	5,6nF 10% 63V
2213	4822 124 40195	150µF 20% 16V
2214	4822 122 32893	100nF 80% 50V
2215	4822 124 41506	47µF 20% 16V
2216	4822 122 31981	33nF ±0,5pF 50V
2217	4822 124 41577	4,7µF 20% 50V
2218	4822 124 41643	100µF 20% 16V
2219	4822 124 41577	4,7µF 20% 50V
2220	4822 122 31916	5,6nF 10% 63V
2223	4822 122 31916	5,6nF 10% 63V
2224	4822 122 31981	33nF ±0,5pF 50V
2225	4822 122 31782	15000pF 10% 50V
2226	4822 122 31782	15000pF 10% 50V

3012	4822 051 10562	5k6 2% 0,25W
3013	4822 051 10273	27k 2% 0,25W
3014	4822 051 10823	82k 2% 0,25W
3015	4822 051 10104	100k 2% 0,25W
3016	4822 100 11163	100k 30% LIN 0,1W
3019	4822 051 10473	47k 2% 0,25W
3020	4822 051 10273	27k 2% 0,25W
3021	4822 051 20183	18k 5% 0,1W

NICAM IF/sound module (continued)

3030	4822 051 10223	22k 2% 0,25W
3035	4822 051 10472	4k7 2% 0,25W
3041	4822 051 10221	220Ω 2% 0,25W
3042	4822 116 90536	120Ω 1% 0,125W
3042	4822 051 10101	100Ω 2% 0,25W
3043	4822 050 21001	100Ω 1% 0,6W
3044	4822 051 10102	1k 2% 0,25W
3052	4822 051 10102	1k 2% 0,25W
3055	4822 051 10103	10k 2% 0,25W
3056	4822 051 10471	470Ω 2% 0,25W
3065	4822 051 10472	4k7 2% 0,25W
3070	4822 051 10822	8k2 2% 0,25W
3100	4822 051 10561	560Ω 2% 0,25W
3101	4822 051 10331	330Ω 2% 0,25W
3102	4822 051 10681	680Ω 2% 0,25W
3105	4822 051 10561	560Ω 2% 0,25W
3106	4822 051 10561	560Ω 2% 0,25W
3107	4822 051 10122	1k2 2% 0,25W
3108	4822 051 20222	2k2 5% 0,1W
3109	4822 053 11121	120Ω 5% 2W
3110	4822 051 10102	1k 2% 0,25W
3116	4822 051 10471	470Ω 2% 0,25W
3120	4822 051 10154	150k 2% 0,25W
3121	4822 051 10224	220k 2% 0,25W
3122	4822 051 10471	470Ω 2% 0,25W
3123	4822 051 10511	510Ω 2% 0,25W
3125	4822 051 10102	1k 2% 0,25W
3126	4822 051 10393	39k 2% 0,25W
3139	4822 051 10393	39k 2% 0,25W
3140	4822 051 10471	470Ω 2% 0,25W
3141	4822 051 10102	1k 2% 0,25W
3143	4822 051 10331	330Ω 2% 0,25W
3144	4822 052 10278	2Ω7 5% 0,33W
3150	4822 051 10102	1k 2% 0,25W
3151	4822 051 10103	10k 2% 0,25W
3160	4822 051 10331	330Ω 2% 0,25W
3161	4822 051 10331	330Ω 2% 0,25W
3162	4822 051 10331	330Ω 2% 0,25W
3168	4822 052 10278	2Ω7 5% 0,33W
3170	4822 051 10562	5k6 2% 0,25W
3170	4822 051 10153	15k 2% 0,25W
3171	4822 051 10102	1k 2% 0,25W
3171	4822 051 10272	2k7 2% 0,25W
3172	4822 051 10472	4k7 2% 0,25W
3173	4822 051 10472	4k7 2% 0,25W
3177	4822 051 10822	8k2 2% 0,25W
3177	4822 051 10472	4k7 2% 0,25W
3180	4822 051 10562	5k6 2% 0,25W
3180	4822 051 10153	15k 2% 0,25W
3181	4822 051 10102	1k 2% 0,25W
3181	4822 051 10272	2k7 2% 0,25W
3182	4822 051 10472	4k7 2% 0,25W
3183	4822 051 10472	4k7 2% 0,25W
3188	4822 052 10109	10Ω 5% 0,33W
3190	4822 051 10471	470Ω 2% 0,25W
3191	4822 052 10399	39Ω 5% 0,33W
3192	4822 052 10478	4Ω7 5% 0,33W
3195	4822 052 10109	10Ω 5% 0,33W
3197	4822 051 10331	330Ω 2% 0,25W
3200	4822 100 11676	10k 30% LIN 0,2W
3201	4822 051 10822	8k2 2% 0,25W
3202	4822 051 10512	5k1 2% 0,25W
3203	4822 051 10563	56k 2% 0,25W
3204	4822 051 10563	56k 2% 0,25W
3205	4822 052 10229	22Ω 5% 0,33W
3206	4822 051 10331	330Ω 2% 0,25W
3208	4822 051 10331	330Ω 2% 0,25W
3209	4822 051 10103	10k 2% 0,25W
3210	4822 051 10102	1k 2% 0,25W
3213	4822 051 10478	4Ω7 5% 0,25W
3214	4822 051 10273	27k 2% 0,25W
3215	4822 051 10272	2k7 2% 0,25W
3216	4822 051 10333	33k 2% 0,25W
3217	4822 051 10102	1k 2% 0,25W
3218	4822 051 10101	100Ω 2% 0,25W
4000	4822 051 10393	39k 2% 0,25W
4000	4822 051 10392	3k9 2% 0,25W
4199	4822 051 10008	0Ω 5% 0,25W

5010	4822 157 53302	1µH
5035	4822 157 53534	0,34µH 5%
5036	4822 157 53609	0,36µH 5%
5042	4822 157 53634	5,6µH 10%
5101	4822 157 52511	0,83µH
5102	4822 157 52511	0,83µH
5103	4822 157 63077	0,25µH 5%
5129	4822 157 51238	0,820µH
5130	4822 157 51238	0,820µH
5153	4822 157 53575	3,3µH

6151	5322 130 34953	BB405B
6190	4822 130 80446	LL4148
6191	4822 130 80954	LLZ-C5V6
6197	4822 130 81027	LLZ-C11

7000	4822 209 72812	TDA2549/C4
7035	4822 130 44121	BC338
7100	4822 209 63784	TDA3857/V3
7106	4822 130 61207	BC848
7108	5322 130 42012	BC858
7120	4822 209 73558	TA8662N
7150	4822 209 61114	CF70123
7160	5322 209 10883	PCF8574P
7168	4822 209 73236	TDA1543/N2
7170	4822 209 83163	LM833N
7180	4822 209 83163	LM833N
7190	5322 130 41983	BC858B
7191	4822 130 44121	BC338
7195	4822 130 61207	BC848
7200	4822 209 61026	TDA8415/V1
7213	4822 209 63734	TDA8425/V7
7217	5322 130 41982	BC848B

Teletext module

	4822 212 23697	TXT MOD. EUROPE
	4822 212 23698	TXT MOD. SCAN

21	4822 267 40469	6P MALE GOLD
22	4822 265 40471	8P MALE GOLD

various

1801	4822 242 73552	14,875 MHz
1802	4822 242 71508	6 MHz

2792	4822 122 33496	100nF 10% 63V
2793	4822 122 32542	47nF 10% 63V
2794	4822 122 31769	18pF 5% 50V
2795	4822 122 31769	18pF 5% 50V
2796	4822 122 31769	18pF 5% 50V
2797	4822 122 31769	18pF 5% 50V
2799	4822 122 31965	220pF 5% 63V
2800	4822 124 40178	100µF 20% 10V
2801	4822 122 32442	10nF 50V
2804	4822 122 31766	120pF 5% 50V
2805	4822 122 31766	120pF 5% 50V
2810	4822 122 33496	100nF 10% 63V
2811	4822 122 33496	100nF 10% 63V
2812	4822 122 33496	100nF 10% 63V
2813	4822 122 32442	10nF 50V
2814	4822 122 31773	560pF 5% 50V
2815	4822 122 33496	100nF 10% 63V
2816	4822 122 31825	27pF 10% 50V
2817	4822 122 32504	15pF 5% 50V
2818	5322 122 31647	1nF 10% 63V
2819	4822 122 31727	470pF 5% 63V
2820	4822 122 31797	22nF 10% 63V
2821	4822 122 32142	270pF 5% 63V
2822	4822 122 31765	100pF 5% 50V
2823	4822 122 31727	470pF 5% 63V
2824	4822 122 32891	68nF 10% 63V
2825	4822 124 41525	100µF 20% 25V
2826	4822 122 32504	15pF 5% 50V
2827	4822 122 32542	47nF 10% 63V
2828	4822 122 32542	47nF 10% 63V
2829	4822 124 41506	47µF 20% 16V
2830	4822 122 32542	47nF 10% 63V
2832	4822 124 41576	2,2µF 20% 50V
2833	4822 124 41576	2,2µF 20% 50V
2834	4822 124 40178	100µF 20% 10V
2836	4822 122 31766	120pF 5% 50V
2845	4822 124 40178	100µF 20% 10V
2846	4822 124 41554	220µF 20% 10V
2849	4822 124 21212	15µF 20% 35V
3795	4822 051 10392	3k9 2% 0,25W
3796	4822 051 10121	120Ω 2% 0,25W
3797	4822 116 52176	10Ω 5% 0,5W
3798	4822 051 10121	120Ω 2% 0,25W
3800	4822 051 10103	10k 2% 0,25W
3802	4822 051 10101	100Ω 2% 0,25W
3803	4822 051 10101	100Ω 2% 0,25W
3804	4822 051 10101	100Ω 2% 0,25W
3805	4822 051 10122	1k2 2% 0,25W
3807	4822 051 10562	5k6 2% 0,25W
3808	4822 051 10103	10k 2% 0,25W
3809	4822 051 10272	2k7 2% 0,25W
3810	4822 051 10333	33k 2% 0,25W
3811	4822 051 10223	22k 2% 0,25W
3812	4822 051 10332	3k3 2% 0,25W
3813	4822 051 10271	270Ω 2% 0,25W
3814	4822 116 52204	1k 5% 0,5W
3815	4822 051 10152	1k5 2% 0,25W

Teletext module (continued)

3816	4822 051 10683	68k 2% 0,25W
3817	4822 051 10122	1k2 2% 0,25W
3818	4822 051 10122	1k2 2% 0,25W
3819	4822 051 10122	1k2 2% 0,25W
3820	4822 051 10122	1k2 2% 0,25W
3821	4822 051 10122	1k2 2% 0,25W
3822	4822 051 10122	1k2 2% 0,25W
3823	4822 051 10122	1k2 2% 0,25W
3824	4822 051 10332	3k3 2% 0,25W
3825	4822 051 10332	3k3 2% 0,25W
3826	4822 052 10159	15Ω 5% 0,33W
3827	4822 051 10332	3k3 2% 0,25W
3828	4822 051 10122	1k2 2% 0,25W
3829	4822 116 52211	150Ω 5% 0,5W
3830	4822 050 28209	82Ω 1% 0,6W
3831	4822 051 10681	680Ω 2% 0,25W
3832	4822 051 10102	1k 2% 0,25W
3833	4822 051 10102	1k 2% 0,25W
3834	4822 051 10681	680Ω 2% 0,25W
3835	4822 051 10561	560Ω 2% 0,25W
3836	4822 051 10473	47k 2% 0,25W
3837	4822 051 10102	1k 2% 0,25W
3838	4822 051 10273	27k 2% 0,25W
3839	4822 051 10122	1k2 2% 0,25W
3840	4822 051 10122	1k2 2% 0,25W
3841	4822 051 10122	1k2 2% 0,25W
3842	4822 051 10122	1k2 2% 0,25W
3843	4822 051 10122	1k2 2% 0,25W
3845	4822 052 10689	68Ω 5% 0,33W
3846	4822 052 10689	68Ω 5% 0,33W
3847	4822 051 10829	82Ω 2% 0,25W
3848	4822 051 10181	180Ω 2% 0,25W
3849	4822 051 10102	1k 2% 0,25W
3900	4822 051 10008	0Ω 5% 0,25W
3901	4822 051 10008	0Ω 5% 0,25W
3904	4822 051 10008	0Ω 5% 0,25W
3906	4822 051 10008	0Ω 5% 0,25W
3908	4822 051 10008	0Ω 5% 0,25W
3910	4822 051 10008	0Ω 5% 0,25W
3913	4822 051 10008	0Ω 5% 0,25W
3914	4822 051 10008	0Ω 5% 0,25W
3915	4822 051 10008	0Ω 5% 0,25W
3917	4822 051 10008	0Ω 5% 0,25W
3918	4822 051 10008	0Ω 5% 0,25W
3919	4822 051 10008	0Ω 5% 0,25W
3920	4822 051 10008	0Ω 5% 0,25W
3921	4822 051 10008	0Ω 5% 0,25W
3922	4822 051 10008	0Ω 5% 0,25W

5800	4822 156 20966	47 µH
5801	4822 157 52849	22µH 10%
5803	4822 157 52825	60µH
5814	4822 157 53608	10µH
5816	4822 157 52224	15µH
5834	4822 157 53001	27µH 10%
5847	4822 157 51157	3,3µH

6809	4822 130 80446	LL4148
6810	4822 130 80446	LL4148
6811	4822 130 80446	LL4148
6812	4822 130 80446	LL4148
6813	4822 130 80906	LLZ-C7V5
6814	4822 130 80446	LL4148
6820	4822 130 80446	LL4148
6847	4822 130 42489	BYD33G
6848	4822 130 80905	LLZ-F5V1

7800	4822 209 63857	PCF84C81/074
7801	4822 130 61207	BC848
7802	4822 130 61207	BC848
7803	5322 130 41982	BC848B
7810	4822 209 72681	KM6264AL-15
7811	5322 130 41982	BC848B
7812	5322 130 60159	BC846B
7820	4822 209 73879	SAA5243P/E/M3
7830	4822 209 63645	SAA5231/V7
7831	4822 130 40962	BC558A
7832	4822 130 40937	BC548B
7846	5322 130 44921	BD943
7849	5322 130 42012	BC858

PIP module

	4822 265 40503	5P female gold plated
	4822 265 40472	10P female gold plated
	4822 265 30828	5P male

Various parts

1155	4822 320 40051	DELAY LINE DL711
1201	4822 242 70304	crystal 8,867 238 MHz
1212	4822 242 70736	crystal 7,159 090 MHz

2103	4822 122 32444	33pF 5% 50V
2105	4822 122 31766	120pF 5% 50V
2118	4822 122 31775	680pF 5% 50V
2119	4822 122 31808	150pF 10% 50V
2120	4822 122 31807	1200pF 5% 50V
2125	4822 122 32863	22nF 80% 50V
2155	4822 122 32862	10nF 80% 50V
2158	4822 122 32862	10nF 80% 50V
2160	4822 124 40242	1µF 20% 63V
2161	4822 124 41576	2,2µF 20% 50V
2162	4822 122 32893	100nF 80% 50V
2171	4822 122 31961	68pF 5% 63V
2172	4822 126 11175	22pF 5% 50V
2176	4822 126 11175	22pF 5% 50V
2177	4822 122 31961	68pF 5% 63V
2180	4822 122 31768	180pF 5% 50V
2181	4822 122 31768	180pF 5% 50V
2185	4822 122 32863	22nF 80% 50V
2187	4822 122 32863	22nF 80% 50V
2189	4822 122 31746	1000pF 5% 50V
2196	4822 122 32893	100nF 80% 50V
2197	4822 122 31385	22pF 5% 50V
2201	4822 122 31746	1000pF 5% 50V
2202	4822 125 50045	20pF
2211	4822 122 31746	1000pF 5% 50V
2212	4822 125 50045	20pF trim.
2220	5322 121 42661	330nF 5% 63V
2222	4822 122 32542	47nF 10% 63V
2227	5322 122 31842	330pF 5% 63V
2230	4822 124 40242	1µF 20% 63V
2232	4822 124 41678	22µF 20% 25V
2234	4822 122 33496	100nF 10% 63V
2235	4822 124 41578	6,8µF 20% 50V
2238	4822 121 42937	2,7nF 1% 250V
2239	4822 122 32893	100nF 80% 50V
2250	4822 121 51115	270nF 10% 63V
2251	5322 122 31647	1nF 10% 63V
2255	4822 122 31766	120pF 5% 50V
2260	4822 122 32893	100nF 80% 50V
2270	4822 122 32893	100nF 80% 50V
2340	4822 124 41506	47µF 20% 16V
2345	4822 124 41506	47µF 20% 16V
2350	4822 124 40849	330µF 20% 16V
2351	4822 124 41643	100µF 20% 16V
2380	4822 122 32927	220nF
2381	4822 122 32927	220nF
2382	4822 122 32927	220nF
2383	4822 122 32927	220nF
2384	4822 122 32927	220nF
2385	4822 122 32927	220nF
2390	4822 122 32893	100nF 80% 50V
2399	4822 122 31746	1000pF 5% 50V
2404	4822 122 31965	220pF 5% 63V
2405	4822 122 32862	10nF 80% 50V
2409	4822 122 31965	220pF 5% 63V
2410	4822 122 32862	10nF 80% 50V
2413	4822 122 31765	100pF 5% 50V

PIP module (continued)

2414	4822 122 32862	10nF 80% 50V
2415	4822 122 31965	220pF 5% 63V
2430	4822 122 32893	100nF 80% 50V
2432	4822 122 32893	100nF 80% 50V
2434	4822 122 32893	100nF 80% 50V
2438	4822 121 42472	10nF 10% 50V
2439	4822 121 41856	22nF 5% 100V
2440	4822 122 31965	220pF 5% 63V
2441	4822 122 31727	470pF 5% 63V
2442	4822 124 40242	1µF 20% 63V
2446	4822 122 32893	100nF 80% 50V
2448	4822 122 32893	100nF 80% 50V
2450	4822 122 32856	8,2nF 10% 63V
2451	4822 121 51379	82nF 10% 63V
2455	4822 122 31972	39pF 5% 50V
2459	4822 124 41997	470µF 10V
2466	4822 122 32893	100nF 80% 50V

2444	4822 051 10224	220k 2% 0,25W
3103	4822 051 10821	820Ω 2% 0,25W
3104	4822 051 10821	820Ω 2% 0,25W
3105	4822 051 10362	3k6 2% 0,25W
3106	4822 116 52233	10k 5% 0,5W
3107	4822 051 10103	10k 2% 0,25W
3108	4822 051 10103	10k 2% 0,25W
3155	4822 051 10391	390Ω 2% 0,25W
3156	4822 051 10122	1k2 2% 0,25W
3157	4822 100 11391	330Ω 30% LIN
3158	4822 051 10759	75Ω 2% 0,25W
3170	4822 051 10112	1k1 2% 0,25W
3175	4822 051 10621	620Ω 2% 0,25W
3196	4822 116 52204	1k 5% 0,5W
3200	4822 051 10103	10k 2% 0,25W
3201	4822 051 10103	10k 2% 0,25W
3202	4822 051 10103	10k 2% 0,25W
3211	4822 051 10103	10k 2% 0,25W
3212	4822 051 10103	10k 2% 0,25W
3214	4822 051 10102	1k 2% 0,25W
3220	4822 051 10512	5k1 2% 0,25W
3221	4822 116 52233	10k 5% 0,5W
3222	4822 051 10008	JUMPER
3227	4822 116 52299	7k5 5% 0,5W
3228	4822 051 10472	4k7 2% 0,25W
3231	4822 051 10682	6k8 2% 0,25W
3232	4822 051 10229	22Ω 2% 0,25W
3233	4822 051 10471	470Ω 2% 0,25W
3234	4822 051 10361	360Ω 2% 0,25W
3235	4822 051 10122	1k2 2% 0,25W
3236	4822 051 10471	470Ω 2% 0,25W
3237	4822 051 10332	3k3 2% 0,25W
3238	4822 051 10333	33k 2% 0,25W
3239	4822 100 11319	4k7 30% LIN
3241	4822 051 10271	270Ω 2% 0,25W
3242	4822 116 52204	1k 5% 0,5W
3250	4822 051 10911	910Ω 2% 0,25W
3265	4822 051 10104	100k 2% 0,25W
3270	4822 051 10103	10k 2% 0,25W
3275	4822 051 10103	10k 2% 0,25W
3276	4822 051 10102	1k 2% 0,25W
3330	4822 051 20008	jumper
3335	4822 051 10271	270Ω 2% 0,25W
3336	4822 051 10432	4k3 2% 0,25W
3337	4822 051 10122	1k2 2% 0,25W
3338	4822 051 10332	3k3 2% 0,25W
3340	4822 051 10202	2k 2% 0,25W
3341	4822 052 10229	22Ω 5% 0,33W
3345	4822 052 10229	22Ω 5% 0,33W
3353	4822 052 10568	5Ω6 5% 0,33W
3354	4822 051 10271	270Ω 2% 0,25W
3390	4822 051 10151	150Ω 2% 0,25W
3391	4822 051 10181	180Ω 2% 0,25W

3394	4822 051 10151	150Ω 2% 0,25W
3395	4822 051 10181	180Ω 2% 0,25W
3398	4822 051 10151	150Ω 2% 0,25W
3399	4822 051 10181	180Ω 2% 0,25W
3404	4822 051 10431	430Ω 2% 0,25W
3405	4822 051 10361	360Ω 2% 0,25W
3410	4822 051 10391	390Ω 2% 0,25W
3411	4822 051 10471	470Ω 2% 0,25W
3412	4822 051 10751	750Ω 2% 0,25W
3414	4822 051 10471	470Ω 2% 0,25W
3416	4822 051 10182	1k8 2% 0,25W
3434	4822 051 10473	47k 2% 0,25W
3436	4822 051 10473	47k 2% 0,25W
3437	4822 051 10101	100Ω 2% 0,25W
3438	4822 051 10513	51k 2% 0,25W
3440	4822 116 52222	390Ω 5% 0,5W
3441	4822 051 10519	51Ω 2% 0,25W
3442	4822 051 10919	91Ω 2% 0,25W
3444	4822 116 52175	100Ω 5% 0,5W
3446	4822 116 52175	100Ω 5% 0,5W
3448	4822 051 10392	3k9 2% 0,25W
3450	4822 051 10471	470Ω 2% 0,25W
3452	4822 051 10471	470Ω 2% 0,25W
3454	4822 051 10471	470Ω 2% 0,25W
3460	4822 116 52231	820Ω 5% 0,5W
3461	4822 116 52259	2k4 5% 0,5W
3462	4822 116 52287	51k 5% 0,5W
3463	4822 116 52299	7k5 5% 0,5W
3464	4822 051 10472	4k7 2% 0,25W
3470	4822 052 10108	1Ω 5% 0,33W
3997	4822 051 10339	33Ω 2% 0,25W
3997	4822 051 10279	27Ω 2% 0,25W

jumpers

4001	4822 051 10008	jumper
4002	4822 051 10008	jumper
4003	4822 051 10008	jumper
4004	4822 051 10008	jumper
4005	4822 051 10008	jumper
4006	4822 051 10008	jumper
4007	4822 051 10008	jumper
4010	4822 051 10008	jumper
4011	4822 051 10008	jumper
4012	4822 051 10008	jumper
4048	4822 051 10008	jumper
4100	4822 051 10008	jumper
4201	4822 051 10008	jumper
4401	4822 051 10008	jumper
4402	4822 051 10008	jumper
4403	4822 051 10008	jumper
4404	4822 051 10008	jumper
4406	4822 051 10008	jumper
4407	4822 051 10008	jumper
4415	4822 051 10008	jumper

5118	4822 157 60435	10,3µH 6%
5155	4822 157 60433	7,2µH 6%
5157	4822 157 60434	9,4µH 6%
5170	4822 157 60432	10,3µH
5175	4822 157 60432	10,3µH
5190	4822 157 60432	10,3µH
5400	4822 157 50943	12µH 10%
5402	4822 157 50943	12µH 10%
5404	4822 156 20915	33µH 10%
5406	4822 157 50943	12µH 10%
5408	4822 157 50943	12µH 10%
5410	4822 157 50943	12µH 10%

6300	4822 130 80906	LLZ-C7V5

7103	5322 130 41982	BC848B
7105	5322 130 41982	BC848B
7125	4822 209 62477	TDA4554/V8
7126	4822 209 70019	TDA4510/V2/S8
7200	5322 130 41982	BC848B
7210	5322 130 41982	BC848B
7233	5322 130 41983	BC858B
7234	5322 130 41982	BC848B
7335	5322 130 41982	BC848B
7337	5322 130 41982	BC848B
7338	5322 130 41982	BC848B
7350	4822 130 42616	BC818-40
7380	4822 209 60479	TEA5114A
7400	5322 130 41983	BC858B
7402	5322 130 41983	BC858B
7404	5322 130 41983	BC858B
7406	4822 209 62473	SDA9087
7408	4822 209 63291	SDA9088/2R
7410	4822 209 63644	SDA9086-3
7755	4822 209 72363	TDA2579A/N8